

GenCore version 5.1.3  
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OM nucleic - nucleic search, using sw model

Run on: February 3, 2003, 12:56:37 ; Search time 2599 Seconds  
(without alignments)  
5307.707 Million cell updates/sec

Title: US-10-049-568-1

Perfect score: 474  
Sequence: 1 gccacgattatcagtcgacggttaaa 474

Scoring table: IDENTITY NUC  
Gapop 10-0, Gapext 1.0

Searched: 2054640 seqs, 14551402878 residues

1 number of hits satisfying chosen parameters: 4109280

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%

Listing first 45 summaries

Database: GenEmbl.\*

- 1: gb\_ha:\*
- 2: gb\_hcg:\*
- 3: gb\_in:\*
- 4: gb\_om:\*
- 5: gb\_ov:\*
- 6: gb\_pat:\*
- 7: gb\_ph:\*
- 8: gb\_pl:\*
- 9: gb\_pr:\*
- 10: gb\_ro:\*
- 11: gb\_sts:\*
- 12: gb\_sy:\*
- 13: gb\_un:\*
- 14: gb\_vi:\*
- 15: em\_da:\*
- 16: em\_fun:\*
- 17: em\_hum:\*
- 18: em\_in:\*
- 19: em\_mu:\*
- 20: em\_om:\*
- 21: em\_or:\*
- 22: em\_ov:\*
- 23: em\_pat:\*
- 24: em\_ph:\*
- 25: em\_pl:\*
- 26: em\_ro:\*
- 27: em\_sts:\*
- 28: em\_un:\*
- 29: em\_vi:\*
- 30: em\_hcg\_hum:\*
- 31: em\_hcg\_inv:\*
- 32: em\_hcg\_other:\*
- 33: em\_hcg\_mus:\*
- 34: em\_hcg\_pln:\*
- 35: em\_hcg\_rtd:\*
- 36: em\_hcg\_mam:\*
- 37: em\_hcg\_vrt:\*
- 38: em\_sy:\*
- 39: em\_hcg\_hum:\*
- 40: em\_hcg\_mus:\*
- 41: em\_hcg\_other:\*

Pred. No. is the number of results predicted by chance to have a

score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	474	100.0	474	6	AX088165 Sequence
2	439.2	92.7	1191	6	AX128507 Sequence
3	439.2	92.7	2274	9	AF190500 Sequence
4	222	46.8	187431	9	AX190500 Homo sapi
5	171.8	36.2	1068	6	AX148176 Sequence
6	171.8	36.2	2049	6	AX385037 Sequence
7	171.8	36.2	2142	6	AX451566 Sequence
8	171.8	36.2	2193	6	AX385032 Sequence
9	171.8	36.2	2214	6	AX451562 Sequence
10	171.8	36.2	2265	6	AX385027 Sequence
11	171.8	36.2	2436	9	AF453828 Homo sapi
12	171.8	36.2	2838	9	AF403384 Homo sapi
13	170.6	36.0	58377	2	AC128964 Rat
14	170.6	36.0	12482	2	AC121415 Rat
15	170.6	36.0	173546	2	AC098607 Rat
16	163	34.4	179055	2	AC122462 Mus muscu
17	156.8	33.1	321	6	AX384516 Sequence
18	147.2	31.1	173546	2	AC098607 Rat
19	146.2	30.8	2214	6	AX385045 Sequence
20	146.2	30.8	2539	10	AF346501 Mus muscu
21	106.8	22.5	1018	6	AX147820 Sequence
22	106.8	22.5	170522	9	AC068627 Mus Muscu
23	92.4	19.5	180673	10	AC068627 Mus Muscu
24	92.4	19.5	213462	10	AC077689 Mus Muscu
25	86	18.1	164610	2	AC098990 Rat
26	86	18.1	171869	2	AC121029 Rat
27	61.4	13.0	176565	2	AL136106 Homo sapi
28	51.6	10.9	171869	2	AC121029 Rat
29	48.8	10.3	1015	6	AX254453 Sequence
30	47	9.9	104992	2	AC005504 Plasmodu
31	47	9.9	169546	2	AC004157 Plasmodu
32	45.6	9.6	122258	2	AL356427 Homo sapi
33	45.6	9.6	133751	9	HS1131C10 Human DNA
34	44.4	9.4	174186	9	AC026394 Homo sapi
35	44	9.3	5516	9	AF090694 Homo sapi
36	44	9.3	5644	9	AF036956 Homo sapi
37	44	9.3	6905	9	AF090693 Homo sapi
38	44	9.3	78359	9	AF314199S67 Homo sapi
39	44	9.3	177829	9	AC026392 Homo sapi
40	44	9.3	181507	2	AC015907 Homo sapi
41	44	9.3	187495	9	AC026887 Homo sapi
42	43	9.1	30493	9	AL662819 Human DNA
43	42.4	8.9	153903	9	AC008380 Homo sapi
44	42.4	8.9	153906	9	AC008503 Homo sapi
45	42.4	8.9	170921	9	AC025030 Homo sapi

ALIGNMENTS

RESULT 1	AX088165	474 bp	DNA	linear	PAT 17-MAR-2001
LOCUS	AX088165	Sequence 1 from Patent WO0114548.			
DEFINITION	AX088165				
ACCESSION	AX088165				
VERSION	AX088165.1	GI:13397078			
KEYWORDS					
SOURCE	human.				
ORGANISM	Homo sapiens				
REFERENCE	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;				
AUTHORS	Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.				
TITLE	1 (bases 1 to 474)				
JOURNAL	Duecker, K.				
	New g-protein coupled receptor and dna sequences thereof				
	Patent: WO 0114548-A 1 01-MAR-2001;				

FEATURES MERCK PATENT GmbH (DE)  
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1. .474  
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/db\_xref="GI:13397079"  
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BASE COUNT 144 a 92 c 88 g 150 t  
ORIGIN  
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Best Local Similarity 100.0%; Pred.No.4.3e-100; Indels 0; Gaps 0;  
Matches 474; Conservative 0; Mismatches 0;  
1 GCCCAGATTATTCAGTGGCAATTTTCTGTATTAAATTTGGCCGATTATCATCATA 60  
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QY 361 TGGCATTAACAGCAAGAAATCTATGACAGCAAGGATTCAGAAACATATGCTC 420  
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QY 421 CATCATTCATCTGGGGGGAATGTGGCCACTGCAAGAGATCCACTGAGTTAA 474  
Db 421 CATCATTCATCTGGGGGGAATGTGGCCACTGCAAGAGATCCACTGAGTTAA 474  
RESULT 2  
AX128507 1191 bp DNA linear PAT 15-MAY-2001  
LOCUS AX128507  
DEFINITION Sequence 15 from Patent WO0131014.  
ACCESSION AX128507  
VERSION AX128507.1 GI:14134974  
KEYWORDS  
SOURCE human.  
ORGANISM Homo sapiens  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.  
REFERENCE  
1 (bases 1 to 1191)  
Vogeli,G., Wood,L.S. and Merchant,K.  
G protein-coupled receptors expressed in brain  
JOURNAL Patent: WO 0131014-A 15 03-MAY-2001;  
PHARMACIA & UPJOHN COMPANY (US)  
FEATURES  
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1. .1191  
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BASE COUNT 340 a 229 c 226 g 396 t  
ORIGIN  
Query Match 92.7%; Score 439.2; DB 6; Length 1191;  
Best Local Similarity 96.8%; Pred.No.4.7e-92;  
Matches 459; Conservative 0; Mismatches 13; Indels 2; Gaps 1;  
1 GCCCAGATTATTCAGTGGCAATTTTCTGTATTAAATTTGGCCGATTATCATCATA 60  
Db 643 GCCCAGATTATTCAGTGGCAATTTTCTGTATTAAATTTGGCCGATTATCATCATA 702  
QY 61 GTTTTTCCTATGGAAGCATGTTTATAGTGTTCATCAAGTGCATTAACAGAACTGAA 120  
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QY 181 ACTGATGATTAATGCTGGATACCCATTTTGTAGCGAAACCTCTTCACTGCTTCAGGTA 240  
Db 823 ACTGATGATTAATGCTGGATACCCATTTTGTAGCGAAACCTCTTCACTGCTTCAGGTA 240  
QY 241 GAATACCAAGTACCATTAACCTCTTGGTGTAGTGTATTCTGCGATTACAGTCT 300  
Db 883 GAATACCAAGTACCATTAACCTCTTGGTGTAGTGTATTCTGCGATTACAGTCT 300  
QY 301 TTGAACCAATTTCTTAACTCTGACCAACAAGCATTTTAAAGAAATGATTCATCGGTTT 360  
Db 943 TTGAACCAATTTCTTAACTCTGACCAACAAGCATTTTAAAGAAATGATTCATCGGTTT 360  
QY 361 TGGCATTAACAGCAAGAAATCTATGACAGCAAGGATTCAGAAACATATGCTC 420  
Db 1003 TGGCATTAACAGCAAGAAATCTATGACAGCAAGGATTCAGAAACATATGCTC 420  
QY 421 CATCATTCATCTGGGGGGAATGTGGCCACTGCAAGAGATCCACTGAGTTAA 474  
Db 1061 CATCATTCATCTGGGGGGAATGTGGCCACTGCAAGAGATCCACTGAGTTAA 474  
\* RESULT 3  
AF190500 2274 bp mRNA linear PRI 10-AUG-2001  
LOCUS AF190500  
DEFINITION Homo sapiens leucine-rich repeat-containing G protein-coupled  
receptor 7 (LGR7) mRNA, complete cds.  
ACCESSION AF190500  
VERSION AF190500.1 GI:10441729  
KEYWORDS  
SOURCE Homo sapiens.  
ORGANISM Homo sapiens  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.  
REFERENCE  
1 (bases 1 to 2274)  
Heu,S.Y., Kudo,M., Chen,T., Nakabayashi,K., Bhalla,A., van der  
Spek,P.J., van Duijn,M. and Heuvel,A.J.  
The three subfamilies of leucine-rich repeat-containing G  
protein-coupled receptors (LGR): identification of LGR6 and LGR7  
and the signaling mechanism for LGR7  
JOURNAL Mol. Endocrinol. 14 (8), 1257-1271 (2000)  
MEDLINE 20388592

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PUBMED 10935549
REFERENCE 2 (bases 1 to 2274)
AUTHORS Hsu, S. Y. and Heueh, A. J. W.
TITLE Direct Submission
JOURNAL Submitted (28-SEP-1999) GYN/DB, Stanford University, MSOB 5385,
Stanford, CA 94305, USA
FEATURES
Source Location/Qualifiers
1..2274
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/protein_id="AAG17167.1"
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BASE COUNT 669 a 460 c 421 g 724 t
ORIGIN
Query Match 92.7%; Score 439.2; DB 9; Length 2274;
Best Local Similarity 96.8%; Pred. No. 4.3e-92;
Matches 459; Conservative 0; Mismatches 13; Indels 2; Gaps 1;
QY 1 GCCGAGATTATTCAGTGGCAATTTTCTTGATTAATTTGGCGGATTTATCATATA 60
Db 1726 GCCGAGATTATTCAGTGGCAATTTTCTTGATTAATTTGGCGGATTTATCATATA 1785
QY 61 GTTTTTCCTATGGAAGCATGTTTATAGTTCATCAAAAGTGCATTAACGAACTGAA 120
Db 1786 GTTTTTCCTATGGAAGCATGTTTATAGTTCATCAAAAGTGCATTAACGAACTGAA 1845
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Db 1846 ATAGGAATCAAGTAAAAAGATGATCTTGGCAACGTTTTTCTTATAGTATTT 1905
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Db 1906 ACTGATGATTATCTGATATCCATTTTGTAGTAAATTTCTTTCAGTGCCTCAGGTA 1965
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Db 1966 GAAATACCAAGTACATTAACCTCTTGGGTAGTGAATGTTATCTGCCATTAACAGTGT 2025
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Db 2026 TTGAACCAATTCCTATACCTCTGACCAACAAGACATTTTAAAGAAATGATTCGGATT 2085
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Db 2086 TGGATTAACACAGCAAAAGAAATCTATGACACAGCAAGATACAGAAACATATGCTC 2143
QY 421 CATATTCATCTGGGGGAAATGGCCACTGCAGAGATGCCACTGAGTTAA 474
Db 2144 CATATTCATCTGGGGGAAATGGCCACTGCAGAGATGCCACTGAGTTAA 2197

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RESULT 4
AC107219 187431 bp DNA linear PRI 27-MAR-2002
LOCUS Homo sapiens BAC clone RP11-575B4 from 4, complete sequence.
DEFINITION AC107219
ACCESSION AC107219
VERSION AC107219.5 GI:19526153
KEYWORDS HTG.
SOURCE Homo sapiens.
ORGANISM Homo sapiens.

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REFERENCE 1 (bases 1 to 187431)
AUTHORS Mammalia; Eutheria; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.
1 (bases 1 to 187431)
Sulston, R. E. and Waterston, R.
Toward a complete human genome sequence
Genome Res. 8 (11), 1097-1108 (1998)
99063792
MEDLINE 9847074
PUBMED 2 (bases 1 to 187431)
AUTHORS Isak, A., Meyer, R. and Boyer, E.
The sequence of Homo sapiens BAC clone RP11-575B4
Unpublished (2001)
3 (bases 1 to 187431)
Waterston, R. H.
Direct Submission
Submitted (16-JAN-2002) Genome Sequencing Center, Washington
University School of Medicine, 4444 Forest Park Parkway, St. Louis,
MO 63108, USA
4 (bases 1 to 187431)
Waterston, R. H.
Direct Submission
Submitted (21-FEB-2002) Genome Sequencing Center, Washington
University School of Medicine, 4444 Forest Park Parkway, St. Louis,
MO 63108, USA
5 (bases 1 to 187431)
Waterston, R. H.
Direct Submission
Submitted (16-MAR-2002) Genome Sequencing Center, Washington
University School of Medicine, 4444 Forest Park Parkway, St. Louis,
MO 63108, USA
6 (bases 1 to 187431)
Waterston, R.
Direct Submission
Submitted (27-MAR-2002) Department of Genetics, Washington
University, 4444 Forest Park Avenue, St. Louis, Missouri 63108, USA
On Mar 16, 2002 this sequence version replaced gi:18855160.

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REFERENCE 1 (bases 1 to 187431)
AUTHORS Waterston, R. H.
TITLE Direct Submission
JOURNAL Submitted (16-MAR-2002) Genome Sequencing Center, Washington
University School of Medicine, 4444 Forest Park Parkway, St. Louis,
MO 63108, USA
COMMENT 6 (bases 1 to 187431)
Waterston, R.
Direct Submission
Submitted (27-MAR-2002) Department of Genetics, Washington
University, 4444 Forest Park Avenue, St. Louis, Missouri 63108, USA
On Mar 16, 2002 this sequence version replaced gi:18855160.

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----- Genome Center
Center: Washington University Genome Sequencing Center
Center code: WUGSC
Web site: http://genome.wustl.edu/gsc
Contact: saplens@wustl.wustl.edu
----- Summary Statistics
Center project name: H_NH0575B04

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NOTICE: This sequence may not represent the entire insert of this clone. It may be shorter because we only sequence overlapping clone sections once, or longer because we provide a small overlap between neighboring data submissions.

This sequence was finished as follows unless otherwise noted: all regions were double stranded, sequenced with an alternate chemistry, or covered by high quality data (i.e., phred quality >= 30); an attempt was made to resolve all sequencing problems, such as compressions and repeats; all regions were covered by sequence from more than one subclone; and the assembly was confirmed by restriction digest.

MAPPING INFORMATION:  
Mapping information for this clone was provided by Dr. John D. McPherson, Department of Genetics, Washington University, St. Louis MO. For additional information about the map position of this sequence, see <http://genome.wustl.edu/gsc>

SOURCE INFORMATION:  
The RPc1-11 human BAC library was made from the blood of one male donor, as described by Osoegawa, K., Woon, P. Y., Zhao, B., Fritgen, E., Tatem, M., Catanesse, J. J., and de Jong, P. J. (1998) An improved approach for construction of bacterial artificial chromosome libraries. Genomics 51:1-8. The clone may be obtained either from Research Genetics, Inc. (<http://www.resgen.com>) or Pieter de Jong and coworkers at <http://www.chori.org>  
VECTOR: pBACe3.6

NEIGHBORING SEQUENCE INFORMATION:  
The clone sequenced to the left is CTD-2005A22; the clone sequenced to the right is RP11-663M18. Actual start of this clone is at base position 1 of RP11-575B4; actual end is at base position 187431 of RP11-575B4.

Sequence derived from one plasmid subclone, base position 102011 to 102054.

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misc_feature 11115..11388 /note="match to EST A1652121 (NID:g4736100) wb47c02.x1"
repeat_region 12295..12442 /rpt_family="Alu"
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Best Local Similarity 97.8%; Pred. No. 7,2e-42;
Matches 225; Conservative 0; Mismatches 5; Indels 0; Gaps 0;
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QY 29 TTGGTATTAAATTTGGCCGATTTATCATATGATTTTCTATGGAAGCATGTTTATA 88  
DB 13203 TAGGATTTAATTTGGCCGATTTATCATATGATTTTCTATGGAAGCATGTTTATA 13262

QY 89 GGTTCATCAAAAGTCATACAGCACTGAATTCGGAATCAAGTTAAAAAGAGATGA 148  
DB 13263 GGTTCATCAAAAGTCATACAGCACTGAATTCGGAATCAAGTTAAAAAGAGATGA 13322

QY 149 TCGTTGCCAAAGCTTTTCTTATAGTATTACTGATGCACTTAAGCTGATACCATTT 208  
DB 13323 TCGTTGCCAAAGCTTTTCTTATAGTATTACTGATGCACTTAAGCTGATACCATTT 13382



QY 209 TTGTAGCCAAACCTCTTCACTGCTTCAAGTAGAATAACAGGTAACATA 258  
Db 13383 TTGTAGTGAATTTCTTCACTGCTTCAAGTAGAATAACAGGTAACATA 13432

RESULT 5  
LOCUS AX148176 1068 bp DNA linear PAT 08-JUN-2001  
DEFINITION Sequence 17 from Patent WO0136471.  
ACCESSION AX148176  
VERSION AX148176.1 GI:14347081  
KEYWORDS  
SOURCE human.  
ORGANISM Homo sapiens  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.  
REFERENCE 1 (bases 1 to 1068)  
AUTHORS Chen R., Dang H.T. and Lowitz, K.P.  
TITLE Endogenous and non-endogenous versions of human g protein-coupled  
receptors  
Patent: WO 0136471-A 17 25-MAY-2001;  
ARENA Pharmaceuticals, Inc. (US)  
FEATURES  
source 1. 1068  
location/Qualifiers  
/organism="Homo sapiens"  
/db\_xref="taxon:9606"  
BASE COUNT 278 a 215 c 214 g 361 t  
ORIGIN

Query Match 36.2%; Score 171.8; DB 6; Length 1068;  
Best Local Similarity 67.4%; Pred. No. 76-30;  
Matches 242; Conservative 0; Mismatches 117; Indels 0; Gaps 0;

QY 10 TATTCAGTGGCAATTTTCTGATTAATTTGGCCGATTTATCATATGTTTTCC 69  
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QY 70 TATGGAAGCATGTTTATAGTTCATCAAGTCCATACAGCACTGAATACGGAAT 129  
Db 628 TATATCTAGTGTCTGTCATCAAAAACCGCTTGACAGACAGAAAGTAAGGAT 687

QY 130 CAAGTAAAAAGAGATGATCTTGGCAAGCTTTTCTTATAGATTAATTAAGTGA 189  
Db 688 TGTTTGGAGAGAGAGTGGCTGTTGCAATGTTCTTTTATAGTTCATGATGCC 747

QY 190 TTATGCTGATACCATTTTGTAGCGAAACCTCTTCACTGCTTCAAGTAGAATA 249  
Db 748 ATCTGCTGATCTCTGATTTTGTAGTAAATCTTCTTCCGCGGTGGAATACCA 807

QY 250 GGTACCATTAACCTCTTGGGATGATGTTGTTATTCGCAATTAACAGTGTGAACCA 309  
Db 808 GACACATGACTCTCTGATAGTATTTTCTTCCAGTTAAACAGTGTGAATCCA 867

QY 310 ATTCTATATCTGACCAACAGCACTTTAAAGAAATGATCATGGGTTTGGCATTA 368  
Db 868 ATCTCTATATCTGACCAACCACTTTTAAAGCAAGTTGAAACAGTGTGCAACA 926

RESULT 6  
LOCUS AX385037 2049 bp DNA linear PAT 19-MAR-2002  
DEFINITION Sequence 11 from Patent WO0214489.  
ACCESSION AX385037  
VERSION AX385037.1 GI:19578160  
KEYWORDS  
SOURCE human.  
ORGANISM Homo sapiens  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.  
REFERENCE 1  
AUTHORS Paszty, C.J., Gong, J., Daugherty, B. and Rogers, N.  
TITLE A leucine-rich repeat-containing g-protein coupled receptor-8  
molecules and uses thereof

JOURNAL Patent: WO 0214489-A 11 21-FEB-2002;  
Amgen, Inc. (US)  
FEATURES  
source Location/Qualifiers  
1. 2049  
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/db\_xref="taxon:9606"  
CDS  
1. 2049  
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RPFVPSDACLWLPFVVKILSPRAEIPMTMSVLPFLPVNSALNPILVLTN  
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sig\_peptide 1. 108  
BASE COUNT 579 a 415 c 395 g 660 t  
ORIGIN

Query Match 36.2%; Score 171.8; DB 6; Length 2049;  
Best Local Similarity 67.4%; Pred. No. 6.4e-30;  
Matches 242; Conservative 0; Mismatches 117; Indels 0; Gaps 0;

QY 10 TATTCAGTGGCAATTTTCTGATTAATTTGGCCGATTTATCATATGTTTTCC 69  
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QY 70 TATGGAAGCATGTTTATAGTTCATCAAGTCCATACAGCACTGAATACGGAAT 129  
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QY 130 CAAGTAAAAAGAGATGATCTTGGCAAGCTTTTCTTATAGATTAATTAAGTGA 189  
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QY 190 TTATGCTGATACCATTTTGTAGCGAAACCTCTTCACTGCTTCAAGTAGAATA 249  
Db 1729 ATCTGCTGATCTCTGATTTTGTAGTAAATCTTCTTCCGCGGTGGAATACCA 1788

QY 250 GGTACCATTAACCTCTTGGGATGATGTTGTTATTCGCAATTAACAGTGTGAACCA 309  
Db 1789 GACACATGACTCTCTGATAGTATTTTCTTCCAGTTAAACAGTGTGAATCCA 1848

QY 310 ATTCTATATCTGACCAACAGCACTTTAAAGAAATGATCATGGGTTTGGCATTA 368  
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RESULT 7  
LOCUS AX451566 2142 bp DNA linear PAT 03-JUL-2002  
DEFINITION Sequence 5 from Patent WO0226824.  
ACCESSION AX451566  
VERSION AX451566.1 GI:21698550  
KEYWORDS  
SOURCE human.  
ORGANISM Homo sapiens  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.  
REFERENCE 1  
AUTHORS Feder, J.N., Mintier, G., Ramnathan, C.S. and Hawken, D.R.  
TITLE A novel human g-protein coupled receptor, hgdprny5, expressed  
highly in brain and ovarian tissues  
Patent: WO 0226824-A 5 04-APR-2002;  
JOURNAL

FEATURES  
source  
Bristol-Myers Squibb Company (US)  
Location/Qualifiers  
1. .2142  
/organism="Homo sapiens"  
/db\_xref="taxon:9606"  
BASE COUNT 613 a 435 c 408 g 686 t  
ORIGIN

Query Match 36.2%; Score 171.8; DB 6; Length 2142;  
Best Local Similarity 67.4%; Pred. No. 6.3e-30;  
Matches 242; Conservative 0; Mismatches 117; Indels 0; Gaps 0;

QY 10 TATTCAGTGGCAATTTTCTGTGATTAATTTGGCCGATTTATCATCATGTTTTTCC 69  
DB 1642 TATTCCTTGGAAATTTTCTAGAGTGAAGTGTGCTGCTTCTCTCATATGTTTTCC 1701  
QY 70 TATGGAAGCATGTTTATAGTGTTCATCAAAAGTCATTAACAGCACTGAATACGGAAT 129  
DB 1702 TATATTAATCTATGTTCTGTTCCATTTCAAAAAACGCTTGAGACACAGAAATGAAGAT 1761  
DB 130 CAAGTAAAAAGAGATGATCTTGCCAAACGTTTTTCTTTATAGTATTACTGATGA 189  
DB 1762 TGTTTTGAAGAGAGGTGCTGTGCAAAATCGTTCTTTTATAGTGTCTCTGATGCC 1821  
QY 190 TTATGCTGGATACCATTTTGTAGCAAAACCTTTCTACTGCTGAGTGAATATCA 249  
DB 1822 ATCTGCTGATTCCTGTATTTGATTAATCCTTTCCCTTCGAGGTGAATATCA 1881  
QY 250 GGTACCATTAACCTCTGGTGTGATGTTGTTATTTGTCATTAACAGTGTGGAACCA 309  
DB 1882 GACACAAATGACTTCTGATGATGATTTTTCCTTCAGTAAAGTGTGGAATCA 1941  
QY 310 ATTCTTATACCTGTGACCAAGACATTTAAAGAAATGATGATGTTTGGCATTA 368  
DB 1942 ATCTCTATACCTGACCAACATTTTAAAGACAAAGTGAAGACGCTGTCACAA 2000

RESULT 8  
LOCUS AX385032 2193 bp DNA linear PAT 19-MAR-2002  
DEFINITION Sequence 6 from Patent WO0214489.  
ACCESSION AX385032  
VERSION AX385032.1 GI:19578156  
KEYWORDS  
SOURCE human.  
ORGANISM Homo sapiens  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.  
REFERENCE  
AUTHORS Paezzy,C.J., Gong,J., Daugherty,B. and Rogers,N.  
TITLE A novel human g-protein coupled receptor-8  
JOURNAL Leucine-rich repeat-containing g-protein coupled receptor-8  
Patent: WO 0214489-A 6 21-FEB-2002;  
Amgen, Inc. (US)  
FEATURES  
source Location/Qualifiers  
1. .2193  
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1. .2193  
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/codon\_start=1  
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/db\_xref="GI:19578156"

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DIKRGQYKALLMBSVOCRLMGFLAMSTSVLLITLLEKFLIVFPFSNIR  
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LGIFGLNLAFLIIVFSYITMFCISIOKTALQTEVERNCFGREAVANRFEIYFSDA  
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BASE COUNT 626 a 456 c 411 g 700 t  
ORIGIN

Query Match 36.2%; Score 171.8; DB 6; Length 2193;  
Best Local Similarity 67.4%; Pred. No. 6.3e-30;  
Matches 242; Conservative 0; Mismatches 117; Indels 0; Gaps 0;

QY 10 TATTCAGTGGCAATTTTCTGTGATTAATTTGGCCGATTTATCATCATGTTTTTCC 69  
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QY 70 TATGGAAGCATGTTTATAGTGTTCATCAAAAGTCATTAACAGCACTGAATACGGAAT 129  
DB 1753 TATATTAATCTATGTTCTGTTCCATTTCAAAAAACGCTTGAGACACAGAAATGAAGAT 1812  
QY 130 CAAGTAAAAAGAGATGATCTTGCCAAACGTTTTTCTTTATAGTATTACTGATGA 189  
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QY 190 TTATGCTGGATACCATTTTGTAGCAAAACCTTTCTACTGCTTCAAGTGAATATCA 249  
DB 1873 ATCTGCTGATTCCTGTATTTGATTAATCCTTTCCCTTCGAGGTGAATATCA 1932  
QY 250 GGTACCATTAACCTCTGGTGTGATGTTGTTATTTGTCATTAACAGTGTGGAACCA 309  
DB 1933 GACACAAATGACTTCTGATGATGATTTTTCCTTCAGTAAAGTGTGGAATCA 1992  
QY 310 ATTCTTATACCTGTGACCAAGACATTTAAAGAAATGATGATGTTTGGCATTA 368  
DB 1993 ATCTCTATACCTGACCAACATTTTAAAGACAAAGTGAAGACGCTGTCACAA 2051

RESULT 9  
LOCUS AX451562 2214 bp DNA linear PAT 03-JUL-2002  
DEFINITION Sequence 1 from Patent WO0226824.  
ACCESSION AX451562  
VERSION AX451562.1 GI:21698547  
KEYWORDS  
SOURCE human.  
ORGANISM Homo sapiens  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.  
REFERENCE  
AUTHORS Feder,J.N., Mintier,G., Ramanathan,C.S. and Hawken,D.R.  
TITLE A novel human g-protein coupled receptor, hgrp4my5, expressed  
JOURNAL highly in brain and ovarian tissues  
Patent: WO 0226824-A 1 04-APR-2002;  
Bristol-Myers Squibb Company (US)  
FEATURES  
source Location/Qualifiers  
1. .2214  
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BASE COUNT 638 a 457 c 416 g 703 t  
ORIGIN  
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Best Local Similarity 67.4%; Pred. No. 6.3e-30;  
Matches 242; Conservative 0; Mismatches 117; Indels 0; Gaps 0;

QY 10 TATTCAGTGGCAATTTTCTGTGATTAATTTGGCCGATTTATCATCATGTTTTTCC 69  
DB 1714 TATTCCTTGGAAATTTTCTAGAGTGAAGTGTGCTGCTTCTCTCATATGTTTTTCC 1773  
QY 70 TATGGAAGCATGTTTATAGTGTTCATCAAAAGTCATTAACAGCACTGAATACGGAAT 129  
DB 1774 TATATTAATCTATGTTCTGTTCCATTTCAAAAAACGCTTGAGACACAGAAATGAAGAT 1833  
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	Db	1945	AATCGTGGATTCCTGATATTGTAGTAAATCCCTTCCCTCCGGGTGGAATAATACA	2004
	Oy	250	GGTACCAATACCTCTTGGGTAGTGTGTTATTCCTGCATTACAGTCTTTGGAACCA	309
	Db	2005	GACACATAGACTCCGATAGTATGATTTTTTTCCTCCAGTTAACAGTCTTTGTAATCA	2064
	Oy	310	ATTCTTAATCTTGACCACAGACATTAAAGAATGATTCATCGGTTTGGCATTA	368
	Db	2065	ATCCTTAATACCTCACAAACATTTTYYAAGACAAGTTGAAAAGCTGCTGCACAA	2123
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RESULT 11				
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LOCUS	AF453828	2436 bp	mRNA	linear PRI 04-FEB-2002
DEFINITION	Homo sapiens G protein-coupled receptor affecting testicular			
ACCESSION	descent (GREAT) mRNA, complete cds.			
VERSION	AF453828			
KEYWORDS	AF453828.1 GI:18483167			
SOURCE	.			
ORGANISM	Homo sapiens.			
	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;			
REFERENCE	Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.			
AUTHORS	1 (bases 1 to 2436)			
	Gorlov,I.P., Kamat,A., Jones,E., Lamb,D., Truong,A., Bogatcheva,N.,			
TITLE	Bishop,C.E., McElreavey,K. and Agoulnik,A.I.			
JOURNAL	Mutations of the GREAT gene cause cryptorchidism			
REFERENCE	2 (bases 1 to 2436)			
AUTHORS	Agoulnik,A.I.			
TITLE	Direct Submission			
JOURNAL	Submitted (30-NOV-2001) Db/Gyn, Baylor College of Medicine, 6550			
REFERENCE	Fannin St., Su. 861, Houston, TX 77030, USA			
TITLE	Location/Qualifiers			
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	TKLKIKFILOHNCRIRHSRKAPGLCNQIYLINHCNTTLTPRGIFKHDLDTWLILDD			
	NPTRIISORLPGINSIPELSMNANYEALPKMKOMPOLNWDLEGNAIKYITNST			
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	NLSNPMLYLNKHQSFESLKQLSUDERIEIPNIINTERIQPNKLSHIFYKNRYSAY			
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	AMSFKIKCADCLMGVYLPFGVIEDIKRYGOYQVALLMMESYOCRLMSSTEV			
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	YGKNGVCPLVYDOTEDIGSKYSLGIEGVNLAPIIIVPSYTMGCSIQKRALOTT			
	EUNRCGRERYAVANRRFFIYVSFCITPIPVFYKILSLFVEVLPDWTSMIVIFELP			
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BASE COUNT	703 a	503 c	456 g	774 t
ORIGIN				
Query Match	36.2%	Score 171.8;	DB 9;	Length 2436;
Best Local Similarity	67.4%;	Pred. No. 6.2e-30;		
Matches 242;	Conservative 0;	Mismatches 117;	Indels 0;	Gaps 0;

QY 10 TATTCAGTGCATATTTTCTTGATTAATTTGGCCGATTAATCATCATGTTTTC 69  
 DB 1835 TATTCCTGGAAATTTTCTAGTGTGAACCTGCTGCTTTTCATCATATGTTTCC 1894  
 QY 70 TATGGAAGCATGTTTTPAGTGTCAATCAAGTGCCTAAACAGCACTGAATACGAAT 129  
 DB 1895 TATATTAATAATGTTCTGTTCAATCAAAAACCCCTTGACACACAGAAAGTAAAT 1954  
 QY 130 CAAGTAAAAAGAGATGATCTTGCCAAACGTTTTCTTAAATAGTATTACTGATCA 189  
 DB 1955 TGTTTGGAAAGAGAGGTGCTGTGCAAAATGTTCTTTTATAGTCTCTGATGCC 2014  
 QY 190 TTATGCTGATACCATTTTGTAGCCAAACCTTTTCACTGCTTCAAGTAAATCCA 249  
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 DB 2075 GACACATGACTCTGATAGTATGTTTCTTCCATGATTAACAGTGTGATCCA 2134  
 QY 310 ATTCTTACTCTGACCAACACCATTTAAAGAAATGATTCATGCTTTGGCATTA 368  
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RESULT 12  
 AF403384 2838 bp mRNA linear PRI 19-FEB-2002  
 LOCUS Homo sapiens LGR8 mRNA, complete cds.  
 DEFINITION AF403384  
 ACCESSION AF403384.2 GI:18702459  
 VERSION  
 KEYWORDS  
 ORGANISM Homo sapiens.  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.  
 1 (bases 1 to 2838)  
 Heu, S.-Y., Nakabayashi, K., Nishi, S., Kumagai, J., Kudo, M.,  
 Sherwood, O.D., and Heu, A.J.  
 Activation of orphan receptors by the hormone relaxin  
 Science 295 (5555), 671-674 (2002)

REFERENCE  
 AUTHORS  
 TITLE  
 JOURNAL  
 PUBMED  
 MEDLINE  
 11809971  
 2 (bases 1 to 2838)  
 Heu, S.-Y., Nakabayashi, K. and Bhalla, A.  
 Direct Submision  
 Submitted (26-JUL-2001) GYN/OB, Stanford University, MSOB S385,  
 Stanford, CA 94305, USA  
 3 (bases 1 to 2838)  
 Heu, A.J.W.  
 Direct Submision  
 Submitted (19-FEB-2002) Division of Reproductive Biology,  
 Department of Gynecology and Obstetrics, Stanford University  
 Medical Center, 300 Pasteur Drive, Room A-344, Stanford, CA  
 94305-5317, USA  
 Sequence update by submitter  
 On Feb 19, 2002 this sequence version replaced gi:18419431.  
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BASE COUNT 817 a 616 c 536 g 869 t  
 ORIGIN  
 Query Match 36.2% Score 171.8; DB 9; Length 2838;  
 Best Local Similarity 67.4%; Pred. No. 6.1e-30;  
 Matches 242; Conservative 0; Mismatches 117; Indels 0; Gaps 0;  
 QY 10 TATTCAGTGCATATTTTCTTGATTAATTTGGCCGATTAATCATCATGTTTTC 69  
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 QY 70 TATGGAAGCATGTTTTPAGTGTCAATCAAGTGCCTAAACAGCACTGAATACGAAT 129  
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 QY 130 CAAGTAAAAAGAGATGATCTTGCCAAACGTTTTCTTAAATAGTATTACTGATCA 189  
 DB 1991 TGTTTGGAAAGAGAGGTGCTGTGCAAAATGTTCTTTTATAGTCTCTGATGCC 2050  
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 DB 2111 GACACATGACTCTGATAGTATGTTTCTTCCATGATTAACAGTGTGATCCA 2170  
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RESULT 13  
 AC128964 58377 bp DNA linear HTG 24-JUL-2002  
 LOCUS Rattus norvegicus clone CH230-17915, \*\*\* SEQUENCING IN PROGRESS  
 DEFINITION  
 ACCESSION  
 VERSION  
 HTG: HTGS PHASE1.  
 KEYWORDS  
 Rattus norvegicus.  
 ORGANISM Rattus norvegicus.  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae;  
 1 (bases 1 to 58377)  
 Ratus  
 Muzny, D.M., Adams, C., Adio-Oduola, B., Ali-osman, F.R., Allen, C.,  
 Albrooks, S.L., Amaralunge, H.C., Are, J.R., Ayala, M., Banks, T.,  
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 Cartron, T.F., Carter, M., Cavazos, S.R., Chacko, J., Chavez, D.,  
 Chen, G., Chen, R., Chen, Z., Chowdhury, I., Christopoulos, C.,  
 Cleveland, C.D., Cox, C., Coyle, M.D., Dathorne, S.R., David, R.,  
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 Earhart, C., Edgar, D., Edwards, C.C., Elhaj, C., Escoto, M.,  
 Falls, T., Ferraguto, D., Flagg, N., Ford, D., Foster, P., Frantz, P.,  
 Gabisi, A., Geo, J., Garcia, A., Garner, T., Garza, N., Gail, R.,  
 Gorrell, J.H., Guevara, W., Gunaratne, P., Hale, S., Hamilton, K.,  
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 Hernandez, O., Hodgson, A., Hughes, M., Holloway, C., Hollins, B.,

TITLE  
JOURNAL  
REFERENCE  
AUTHORS  
TITLE  
JOURNAL

## COMMENT

Homs, F., Howard, S., Huber, J., Hulyk, S., Hume, J., Jackson, L.E.,  
Jacobson, B., Jia, Y., Johnson, R., Jolivet, S., Joudah, S.,  
Karlssohn, E., Kelly, S., Khan, U., King, L., Kovach, J., Kovar, C.,  
Kratovic, J., Kureishi, A., Landry, N., Leal, B., Lewis, L.C., Lewis, L.,  
Li, J., Li, Z., Lichtarge, O., Liu, C., Liu, J., Liu, W., Louissegh, H.,  
Lozano, R.J., Lu, X., Lucier, A., Lucier, R., Luna, R., Ma, J.,  
Maheshwari, M., Mapa, P., Martin, R., Martindale, A., Martinez, E.,  
Massay, E., Mawhney, E., McLeod, M.P., Meador, M., Mei, G., Metzger, M.,  
Miner, G., Miner, Z., Mitchell, T., Mohabhat, K., Morgan, M., Morris, S.,  
Moser, M., Neal, D., Newton, J., Newton, N., Nguyen, A., Nguyen, N.,  
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Oragunye, N., Owiedo, R., Pace, A., Payton, B., Peery, D., Perez, L.,  
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Rivers, M., Rojas, A., Rojubo, I., Rolfe, M., Ruiz, S., Savery, G.,  
Scherer, S., Scott, G., Shen, H., Shooshbari, N., Sisson, I.,  
Sodergren, E., Sonaike, T., Sparks, A., Stanley, H., Stone, H.,  
Sutton, A., Svatek, A., Tabor, P., Tameris, A., Tameris, K., Tang, H.,  
Tansy, J., Taylor, C., Taylor, T., Telford, B., Thomas, N., Thomas, S.,  
Umani, K., Vaequez, L., Vera, V., Villalon, D., Vinson, R., Wang, Q.,  
Wang, S., Ward-Moore, S., Warren, R., Washington, C., Watlington, S.,  
Williams, G., Williamson, A., Wleczek, R., Woodson, S., Worley, K.,  
Wu, C., Wu, Y., Wu, Y.F., Zhou, J., Zorrilla, S., Nelson, D.,  
Weinstock, G., and Gibbs, R.

Direct Submission  
Unpublished  
2 (bases 1 to 58377)  
Worley, K.C.  
Submitted (24-JUL-2002) Human Genome Sequencing Center, Department  
of Molecular and Human Genetics, Baylor College of Medicine, One  
Baylor Plaza, Houston, TX 77030, USA

----- Genome Center  
Center: Baylor College of Medicine  
Center code: BCM  
Web site: <http://www.hgsc.bcm.tmc.edu/>  
Contact: hgsc-help@bcm.tmc.edu

----- Project Information  
Center project name: KBQJ  
Center clone name: CH230-17915

----- Summary Statistics  
Sequencing vector: plasmid  
Chemistry: Dye-terminator Big Dye 100% of reads  
Assembly program: Phrap; version 0.990329  
Consensus quality: 20312 bases at least Q40  
Consensus quality: 22274 bases at least Q30  
Consensus quality: 23493 bases at least Q20

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\* NOTE: Estimated insert size may differ from sequence length  
\* (see [http://www.hgsc.bcm.tmc.edu/docs/Genbank\\_draft\\_data.html](http://www.hgsc.bcm.tmc.edu/docs/Genbank_draft_data.html)).  
\* NOTE: This is a 'working draft' sequence. It currently  
\* consists of 36 contigs. The true order of the pieces  
\* is not known and their order in this sequence record is  
\* arbitrary. Gaps between the contigs are represented as  
\* runs of N, but the exact sizes of the gaps are unknown.  
\* This record will be updated with the finished sequence  
\* as soon as it is available and the accession number will  
\* be preserved.

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1135  
2575: contig of 1441 bp in length  
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4109: contig of 1334 bp in length  
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5591: gap of unknown length  
5592  
5691: contig of 1482 bp in length  
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6977: gap of unknown length  
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9928: gap of unknown length  
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10028: contig of 1271 bp in length  
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46769 49052: contig of 2284 bp in length  
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51030 52705: contig of 1677 bp in length  
52706 52806: gap of unknown length  
52807 55072: contig of 2266 bp in length  
55073 55172: gap of unknown length  
55173 58377: contig of 3205 bp in length.

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/db\_xref="taxon:10116"  
/clone="CH230-17915"

BASE COUNT 14489 a 12592 c 12867 g 12553 t 5876 others  
ORIGIN

Query Match 36.0%; Score 170.6; DB 2; Length 58377;  
Best Local Similarity 81.7%; Pred. No. 7.5e-30;  
Matches 197; Conservative 0; Mismatches 44; Indels 0; Gaps 0;

Qy 31 GGTATTATTTGGCGGCGATTATCATCATGTTTTCCTATGGAACGATTTTATAGT 90  
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db 47183 GGTATTACCTGGGGCGGCTTATCATCATGTTTGTCTCTATGGAACGATTTTACAGT 47242  
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Qy 91 GTTCATCAAGTGGCGATTAACGAACTGAAATACGATCAAGTTAAAAAGATGATC 150  
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Db 47243 GTTCATGAAGCACCATTACAGCCAGCAATATACAGAGCAGGTGAAGAGATGATC 47302  
Qy 151 CTTCGCCAAGCTTTTCTTTTATATATTTACTGATCATTTAGCTGGATACCATTTT 210  
Db 47303 CTCGCCAAGCCTTTTCTTTTATATGTTTCACCCATCATTTGCTGGATTTCCATTTT 47362  
Qy 211 GTACGGAACCTCTTTACGCTTCAGTGAATATACAGTACCATACCTTTGGGTA 270  
Db 47363 ATACTGAATTTCTCTCATGATTCGGGTGGAATACAGGTACACCTTTTCTGGAA 47422  
Qy 271 G 271  
Db 47423 G 47423

RESULT 14  
AC121415/c  
LOCUS  
DEFINITION Rattus norvegicus clone CH230-39G4, \*\*\* SEQUENCING IN PROGRESS \*\*\*  
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Rattus norvegicus  
52 unordered pieces.  
AC121415  
AC121415.2 GI:21902842  
KEYWORDS HTG; HTGS PHASE1.  
SOURCE Rattus norvegicus.  
ORGANISM Rattus norvegicus  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae;  
Rattus.  
1 (bases 1 to 124282)  
Mazny,D.M., Adams,C., Adio-Oduola,B., Ali-osman,F.R., Allen,C.,  
Alshrooka,S.L., Amaralunga,H.C., Are,J.R., Ayele,M., Banks,T.,  
Barbata,J., Benton,J., Bimaga,K., Blankenburg,K., Bonnin,D.,  
Bouch,J., Bowie,S., Brieva,M., Brown,E., Brown,M., Bryant,N.P.,  
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Umanal,K., Vasquez,L., Vera,V., Villalón,D., Vinson,R., Wang,Q.,  
Wang,S., Ward-Moore,S., Warren,R., Washington,C., Watlington,S.,  
Williams,G., Williamson,A., Wiczysk,R., Wooden,S., Worley,K.,  
Wu,C., Wu,Y., Wu,Y.F., Zhou,J., Zorrilla,S., Nelson,D.,  
Weinstock,K.G., and Gibbs,R.

TITLE  
JOURNAL  
Unpublished  
Direct Submission  
2 (bases 1 to 124282)  
REFERENCE  
Worley,K.C.

TITLE  
JOURNAL  
REFERENCE  
AUTHORS  
TITLE  
JOURNAL  
COMMENT

Direct Submission  
Submitted (18-MAY-2002) Human Genome Sequencing Center, Department  
of Molecular and Human Genetics, Baylor College of Medicine, One  
Baylor Plaza, Houston, TX 77030, USA  
3 (bases 1 to 124282)  
Worley,K.C.  
Submitted (23-JUL-2002) Human Genome Sequencing Center, Department  
of Molecular and Human Genetics, Baylor College of Medicine, One  
Baylor Plaza, Houston, TX 77030, USA  
On Jul 18, 2002 this sequence version replaced gi:20976361.  
Genome Center  
Center: Baylor College of Medicine  
Center code: BCM  
Web site: <http://www.hgsc.bcm.tmc.edu/>  
Contact: hgsc-help@bcm.tmc.edu  
----- Project Information -----  
Center project name: GXMU  
Center clone name: CH230-39G4  
----- Summary Statistics -----  
Sequencing vector: Plasmid;  
Chemistry: Dye-terminator Big Dye; 100% of reads  
Assembly program: Phrap; version 0.990329  
Consensus quality: 75985 bases at least Q40  
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Consensus quality: 84340 bases at least Q20  
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\* NOTE: Estimated insert size may differ from sequence length.  
\* (see [http://www.hgsc.bcm.tmc.edu/docs/genbank\\_draft\\_data.html](http://www.hgsc.bcm.tmc.edu/docs/genbank_draft_data.html)).  
\* NOTE: This is a "working draft" sequence. It currently  
\* consists of 52 contigs. The true order of the pieces  
\* is not known and their order in this sequence record is  
\* arbitrary. Gaps between the contigs are represented as  
\* runs of N, but the exact sizes of the gaps are unknown.  
\* This record will be updated with the finished sequence  
\* as soon as it is available and the accession number will  
\* be preserved.  
1 1157: contig of 1157 bp in length  
1158 1257: gap of unknown length  
1258 2612: contig of 1355 bp in length  
2613 2712: gap of unknown length  
2713 4192: contig of 1480 bp in length  
4193 4292: gap of unknown length  
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23975 25681: contig of 1707 bp in length  
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*	29729	31613:	contig of 1885 bp in length
*	31614	31713:	gap of unknown length
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*	41701	43250:	contig of 1550 bp in length
*	43251	43350:	gap of unknown length
*	43351	45413:	contig of 2063 bp in length
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*	71041	73541:	contig of 2501 bp in length
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*	83838	83937:	gap of unknown length
*	83938	85968:	contig of 2031 bp in length
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FEATURES

source

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/db\_xref="taxon:10116"

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Matches 197; Conservative 0; Mismatches 44; Indels 0; Gaps 0;

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RESULT 15  
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LOCUS  
DEFINITION  
Rattus norvegicus clone CH230-149B15, \*\*\* SEQUENCING IN PROGRESS  
\*\*\*, 66 unordered pieces.  
AC098607  
VERSION  
KEYWORDS  
HTG, HTGS, PHASE1.  
SOURCE  
ORGANISM  
Rattus norvegicus  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae;  
Rattus.

REFERENCE  
AUTHORS

1 (bases 1 to 173546)  
Munzy D.M., Adams C., Adio-Oduola B., Ali-oshman, F.R., Allen C.,  
Albrooks S.L., Amaralunga H.C., Are J.R., Ayale M., Banks T.,  
Barbata J., Benton J., Bimaga K., Blankenburg K., Bonnin D.,  
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Bunay C., Burch P., Burkett C., Burrell K.L., Byrd N.C.,  
Carron T.F., Carter M., Cavazos S.R., Chacko J., Chavez D.,  
Chen G., Chen R., Chen Z., Chowdhry I., Christopoulos C.,  
Cleveland C.D., Cox C., Coyle M.D., Dathorne S.R., David R.,  
Dayla M.L., Davis C., Davy-Carroll L., Dederich D.A.,  
Delaney K.R., Delgado O., Denn A.L., Ding Y., Dinh H.H.,  
Doutwaite K.J., Draper H., Dugan-Rocha S., Durbin K.J.,  
Eamhart C., Edgar D., Edwards C.C., Elhaj C., Escotto M.,  
Falls T., Ferraguto D., Flagg N., Ford J., Foster P., Franz P.,  
Gabisi A., Gao J., Garcia A., Garner T., Garza N., Gill R.,  
Gottrell J.H., Guevara W., Gunaratne P., Hale S., Hamilton K.,  
Harris C., Harris K., Hart M., Havlak P., Hawes A., Hernandez J.,  
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Homes F., Howard S., Huber J., Huiy S., Hume J., Jackson L.E.,  
Jacobson B., Jia Y., Johnson R., Jolivet S., Joudah S.,  
Karlsson E., Kelly S., Khan U., King L., Korva J., Kovar C.,  
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Li J., Li Z., Licharge O., Lieu C., Liu J., Liu W., Loulesed H.,  
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Oregunye N., Oyiedo R., Pace A., Payton B., Peery J., Perez L.,  
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Rivers M., Rojas A., Rojupokan I., Rolfe M., Ruiz S., Saverly G.,  
Scherrer S., Scott G., Shen H., Shoshet N., Slason I.,  
Sodergren E., Sonakke T., Sparks A., Stanley H., Stone H.,  
Sutton A., Svatek A., Tabor P., Tamerisa A., Tamerisa K., Tang H.,  
Tansey J., Taylor C., Taylor T., Telford B., Thomas N., Thomas S.,



TITLE  
JOURNAL  
REFERENCE  
AUTHORS  
TITLE  
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AUTHORS  
TITLE  
JOURNAL  
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Uemami, K., Vaquer, L., Vera, V., Villalón, D., Vinson, R., Wang, O., Wang, S., Ward-Moore, S., Warren, R., Washington, C., Wallington, S., Williams, G., Williamson, A., Wleczyk, R., Wooden, S., Worley, K., Wu, C., Wu, Y., Wu, Y. F., Zhou, J., Zorrilla, S., Nelson, D., Weinstein, G., and Gibbs, R.

Unpublished  
2 (bases 1 to 173546)  
Worley, K.C.  
Direct Submission  
Submitted (26-OCT-2001) Human Genome Sequencing Center, Department of Molecular and Human Genetics, Baylor College of Medicine, One Baylor Plaza, Houston, TX 77030, USA  
3 (bases 1 to 173546)  
Worley, K.C.  
Direct Submission  
Submitted (12-JUL-2002) Human Genome Sequencing Center, Department of Molecular and Human Genetics, Baylor College of Medicine, One Baylor Plaza, Houston, TX 77030, USA  
On Jul 11, 2002 this sequence version replaced gi:17973780.

----- Genome Center  
Center: Baylor College of Medicine  
Center code: BCM  
Web site: <http://www.hgsc.bcm.tmc.edu/>  
Contact: [hgsc-help@bcm.tmc.edu](mailto:hgsc-help@bcm.tmc.edu)  
Project Information  
Center project name: GILC  
Center clone name: CH230-148B15  
----- Summary Statistics  
Sequencing vector: Plasmid;  
Chemistry: Dye-terminator Big Dye 100% of reads  
Assembly program: Phrap; version 0.990329  
Consensus quality: 115868 bases at least Q40  
Consensus quality: 121372 bases at least Q30  
Consensus quality: 125291 bases at least Q20

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\* NOTE: Estimated insert size may differ from sequence length  
\* (see <http://www.hgsc.bcm.tmc.edu/docs/genbank/draft.html>).  
\* NOTE: This is a "working draft" sequence. It currently  
\* consists of 66 contigs. The true order of the pieces  
\* is not known and their order in this sequence record is  
\* arbitrary. Gaps between the contigs are represented as  
\* runs of N, but the exact sizes of the gaps are unknown.  
\* This record will be updated with the finished sequence  
\* as soon as it is available and the accession number will  
\* be preserved.

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1226: contig of 1226 bp in length  
1227 1326: gap of unknown length  
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6950 7049: gap of unknown length  
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 Best Local Similarity 81.7%; Pred. No. 6.5e-30;  
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Db 46322 CTGGCCAAACGCTTTTCTTTTATGTTTACCGATGATGCTGATTCATTTT 46381
Qy 211 GTAGCGAATCTCTTCACTGCTTCAAGTAGAATAACAGATACATTAACCTTGGGTA 270
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Qy 271 G 271
Db 46442 G 46442

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Search completed: February 3, 2003, 13:48:08  
 Job time : 2712 secs



GenCore version 5.1.3  
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OM nucleic - nucleic search, using SW model

Run on: February 3, 2003, 12:53:57 ; Search time 226 Seconds  
(without alignments)  
4723.218 Million cell updates/sec

Title: US-10-049-568-1

Perfect score: 474  
Sequence: 1 gccacgattatcagtcgac.....ggagatgcacacccagtaaa 474

Scoring table: IDENTITY NUC  
Gap 10.0, Gapext 1.0

Searched: 2185239 seqs, 112599159 residues  
number of hits satisfying chosen parameters: 4370478

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database: N Geneseq 101002.\*

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	474	100.0	474	22	AAAF28059
2	439.2	92.7	1089	22	AAI99557
3	439.2	92.7	1162	23	ABK3573
4	439.2	92.7	1191	22	AAAD06507
5	439.2	92.7	1804	21	AAZ00524
6	439.2	92.7	2467	20	AAZ25345
7	439.2	92.7	3584	20	AAZ25346
8	438.8	92.6	830	22	AAI99584
9	438.8	92.6	530	22	AAI35644

10	438.8	92.6	530	22	ABA06471	Human CDNA SEQ ID
11	438.8	92.6	530	22	AAS28950	CDNA encoding for
12	438.8	92.6	530	22	AAS29573	Human endocrine po
13	438.8	92.6	530	22	AAS30187	CDNA encoding rena
14	438.8	92.6	530	22	AAS34845	CDNA encoding nove
15	438.8	92.6	530	22	ABK3875	CDNA encoding nove
16	353.2	74.5	420	21	AACT5735	Human ORFX ORF1290
17	171.8	36.2	1065	22	ABL40194	Human G protein-co
18	171.8	36.2	1065	22	AAS07943	Human CDNA encodin
19	171.8	36.2	1473	24	ABL40192	Human G protein-co
20	171.8	36.2	1455	24	ABL40191	Human G protein-co
21	171.8	36.2	1830	24	ABL40188	Human G protein-co
22	171.8	36.2	2142	24	ABK51947	CDNA encoding huma
23	171.8	36.2	2190	24	ABL40197	Human G protein-co
24	171.8	36.2	2214	24	ABK51944	Human G protein-co
25	171.8	36.2	2262	24	ABL40196	CDNA encoding huma
26	156.8	33.1	321	24	AAAD32027	Human G protein-co
27	154.4	32.6	636	21	AAA44932	Human novel G-prot
28	106.8	22.5	1018	22	AAH51001	Human secreted exp
29	48.8	10.3	1015	22	AAS57085	Human ngpCR57 codi
30	48.8	10.3	1015	22	ABL07293	CDNA encoding Dros
31	44	9.3	4292	21	AAE21792	Drosophila melanog
32	44	9.3	5644	24	ABK83490	Human breast and o
33	40.2	8.5	134499	21	AAE22286	Human CDNA differe
34	39.8	8.4	113515	24	ABL34174	BAC containing rep
35	39.4	8.3	39536	23	ABL15482	Human immune syste
36	38.8	8.2	12138	24	ABK40034	Drosophila melanog
37	38.8	8.2	12138	24	ABL33629	Human chemically p
38	38.4	8.1	1197	20	AAH83965	Human immune syste
39	38.4	8.1	8967	20	AAH83938	Salmonella typhimu
40	38.4	8.1	8967	20	AAH83940	Salmonella typhimu
41	38.4	8.1	8967	20	AAH83942	Salmonella typhimu
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43	38.4	8.1	24701	20	AAH83935	Salmonella typhimu
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45	37.8	8.0	1205	18	AAH83358	Breast cancer tumo

#### ALIGNMENTS

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AC					
XX					
DT	23-MAY-2001 (first entry)				
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DE	Human HGRL101 G-protein coupled receptor coding sequence.				
XX					
KW	Human; HGRL101; G-protein coupled receptor; infection; pain; cancer;				
KW	diabetes; obesity; eating disorder; asthma; Parkinson's disease;				
KW	hypotension; osteoporosis; myocardial infarction; migraine; allergy;				
KW	psychotic disorder; neurological disorder; dyskinesia; vaccine; ss.				
XX					
OS	Homo sapiens.				
XX					
FH					
FT	Key	Location/Qualifiers			
FT	CDS	1..474			
FT		/*tag= a			
FT		/product= "HGRL101"			
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PN	WO200114548-A2.				
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PD	01-MAR-2001.				
XX					
PF	09-AUG-2000; 2000WO-EP07723.				
XX					
PR	19-AUG-1999; 99EP-0116345.				
XX					
PA	(MERE ) MERCK PATENT GMBH.				

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XX
PI Duecker K;
XX
XX MPI: 2001-226617/23.
DR P-PSDB; AAB35407.
XX
XX Novel G-coupled protein receptor, HGR101 useful for treating diseases
PT such as microbial infections, cancers, obesity, asthma, diabetes,
PT hypotension, osteoporosis, myocardial infarction, stroke, ulcer,
PT allergy -
XX
XX Claim 5; Page 35-36; 36pp; English.
XX
XX The present invention provides the protein and coding sequences for a
CC novel human G-protein coupled receptor, designated HGR101. The sequences
CC are useful in the diagnosis, prevention and treatment of diseases
CC including infections, pain, cancer, diabetes, anorexia, bulimia, asthma,
CC Parkinson's disease, acute heart failure, hypotension, hypertension,
CC urinary retention, osteoporosis, angina pectoris, myocardial infarction,
CC stroke, ulcers, allergies, benign prostatic hypertrophy, migraine,
CC vomiting, psychotic and neurological disorders such as anxiety,
CC schizophrenia, manic depression, depression, delirium, dementia and
CC severe mental retardation, and dyskinesias including Huntington's disease
CC and Gilles de la Tourette's syndrome. The present sequence is the HGR101
CC partial coding sequence.
XX
XX Sequence 474 BP; 144 A; 92 C; 88 G; 150 T; 0 other;
SQ
Query Match 100.0%; Score 474; DB 22; Length 474;
Best Local Similarity 100.0%; Pred. No. 9,9e-119;
Matches 474; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 GCCCAGATTATTCAGTGGCAATTTTCTTGATTAATTTGGCCGATTTATCATCA 60
Db 1 GCCCAGATTATTCAGTGGCAATTTTCTTGATTAATTTGGCCGATTTATCATCA 60
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QY 121 ATACGGAATCAAGTTAAAGAGATGATCCTTGCCAAAGCTTTTCTTATAGTATTT 180
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QY 181 ACTGATGATTAATCTGGATACCATTTTGTGACGAAACCTCTTACGCTTCAGTGA 240
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RESULT 2
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XX AA199557;
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XX 04-JAN-2002 (first entry)
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KW immunosuppressive; anti-inflammatory; anti-HIV; antibacterial; vulnery;
KW antiparkinsonian; antistroke; antianaemic; antiarthritic; cancer;
KW antineumatic; hepatocytic; cerebroprotective; antiinflammatory;
KW antiallergic; antidiabetic; antileuk; anticonvulsant; antifungal;
KW antiparasitic; cardiac; immune disorder; cardiovascular disorder;
KW neurological disease; infection; neurotropic; gene therapy; vaccine;
KW 88.
XX
XX Homo sapiens.
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XX WO20015387-A1.
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XX 02-AUG-2001.
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PR 04-FEB-2000; 2000US-0180628.
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PR 02-MAR-2000; 2000US-0186350.
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PR 17-NOV-2000; 2000US-0249209.
PR 17-NOV-2000; 2000US-0249210.
PR 17-NOV-2000; 2000US-0249211.
PR 17-NOV-2000; 2000US-0249212.
PR 17-NOV-2000; 2000US-0249213.
PR 17-NOV-2000; 2000US-0249214.
PR 17-NOV-2000; 2000US-0249215.
PR 17-NOV-2000; 2000US-0249216.
PR 17-NOV-2000; 2000US-0249217.
PR 17-NOV-2000; 2000US-0249218.
PR 17-NOV-2000; 2000US-0249244.
PR 17-NOV-2000; 2000US-0249245.
PR 17-NOV-2000; 2000US-0249245.
PR 17-NOV-2000; 2000US-0249246.
PR 17-NOV-2000; 2000US-0249265.
PR 17-NOV-2000; 2000US-0249297.
PR 17-NOV-2000; 2000US-0249299.
PR 17-NOV-2000; 2000US-0249300.
PR 01-DEC-2000; 2000US-0250160.
PR 01-DEC-2000; 2000US-0250391.
PR 05-DEC-2000; 2000US-0251030.
PR 05-DEC-2000; 2000US-0251988.

PR 05-DEC-2000; 2000US-0256719.
PR 06-DEC-2000; 2000US-0251479.
PR 08-DEC-2000; 2000US-0251855.
PR 08-DEC-2000; 2000US-0251868.
PR 08-DEC-2000; 2000US-0251869.
PR 08-DEC-2000; 2000US-0251889.
PR 08-DEC-2000; 2000US-0251989.
PR 11-DEC-2000; 2000US-0254097.
PR 05-JAN-2001; 2001US-025678.

XX (HUMA-) HUMAN GENOME SCI INC.
XX
XX PI
XX Rosen CA, Barash SC, Ruben SM;
XX
XX MPI: 2001-465573/50.
XX P-PSDB; AAM99945.
XX
XX Isolated digestive system associated polypeptide for treating,
XX preventing and/ or prognosing disorders related to the digestive system
XX including digestive system cancers and also for testing and detection
XX e.g. diagnosis -
XX
XX Claim 1; SEQ ID NO 20; 509bp + Sequence Listing; English.
XX
XX The invention relates to novel genes (A199548-A199604) and proteins
XX (AAM99936-AAM99984) useful for preventing, treating or ameliorating
XX medical conditions e.g. by protein or gene therapy. The genes are
XX isolated from a range of human tissues disclosed in the specification.
XX The nucleic acids, proteins, antibodies and (ant)agonists are useful
XX in the diagnosis, treatment and prevention of: (a) cancer, e.g. breast
XX and ovarian cancer and other cancers of the adrenal gland, bone, bone
XX marrow, breast, gastrointestinal tract, liver, lung, or urogenital;
XX (b) immune disorders e.g. Addison's disease, allergies, autoimmune
XX disease, multiple sclerosis, rheumatoid arthritis and ulcerative
XX colitis; (c) cardiovascular disorders such as myocardial ischaemias;
XX (d) wound healing; (e) neurological diseases such as viral, bacterial, fungal
XX and parasitic infections.
XX Note: The sequence data for this patent did not form part of the
XX printed specification, but was obtained in electronic format directly
XX from WIPO at ftp.wipo.int/pub/published_pct_sequences.

SQ Sequence 1089 BP; 386 A; 186 C; 186 G; 331 T; 0 other;

Query Match 92.7%; Score 439.2; DB 22; Length 1089;
Best Local Similarity 96.8%; Pred. No. 3,4e-109;
Matches 459; Conservative 0; Mismatches 13; Indels 2; Gaps 1;

QY 1 GCCCAGATTATTCAGTGGCAATTTTCTTGATTAATTTGGCCGCAATTAATCATCATTA 60
DB 20 GCCCAGATTATTCAGTGGCAATTTTCTTGATTAATTTGGCCGCAATTAATCATCATTA 79
QY 61 GTTTTTTCTATGAAAGCATGTTTATATAGTGCATCAAGATGCAATGCAATGCAAGTGA 120
DB 80 GTTTTTTCTATGAAAGCATGTTTATATAGTGCATCAAGATGCAATGCAATGCAAGTGA 139
QY 121 ATACGAAATCAAGTTAAAGAGATGATCCTTGCAAAAGCTTTTCTTATAGTATTT 180
DB 140 ATACGAAATCAAGTTAAAGAGATGATCCTTGCAAAAGCTTTTCTTATAGTATTT 199
QY 181 ACTGATGATTAATGATGATACCATTTTGTAGGAAACCTCTTTCATCTGCTGAGGTA 240
DB 200 ACTGATGATTAATGATGATACCATTTTGTAGGAAATTTCTTTCATCTGCTGAGGTA 259
QY 241 GAAATACCAAGTACCAATCCTTGGGTAGTGGTATTTCTGCAATTAACAGTCT 300
DB 260 GAAATACCAAGTACCAATCCTTGGGTAGTGGTATTTCTGCAATTAACAGTCT 319
QY 301 TTGAACCAATTTCTATATCTTGACCAACAAGACATTTAAAGAAATGATTCATGCTTT 360
DB 320 TTGAACCAATTTCTATATCTTGACCAACAAGACATTTAAAGAAATGATTCATGCTTT 379
```

Qy 361 TGGATAACTACAGACAAAGAAATCTATGACGACAAAGTATCAGAAACATATGCTC 420  
Db 380 TGGTATACCTACAGACAAAGAAATCTATGACGACAAAG--TCAGAAACATATGCTC 437  
Qy 421 CATCATTCATCTGGGGAAATGTGCGACCTGCAGAGATGCCACTGATTAA 474  
Db 438 CATCATTCATCTGGGTGGGAATGTGCGACCTGCAGAGATGCCACTGATTAA 491  
RESULT 3  
ID ABK43573/c  
XX ABK43573 standard; cDNA; 1162 BP.  
AC ABK43573;  
XX  
XX 05-JUN-2002 (first entry)  
XX  
DE DNA encoding novel central nervous system protein #153.  
XX  
XX Central nervous system; CNS; autoimmune disease; rheumatoid arthritis;  
XX hyperproliferative disorder; neoplasm; cardiovascular disorder;  
XX cardiac arrest; cerebrovascular disorder; ischaemia; angiogenesis;  
XX nervous system disorder; Alzheimer's disease; AIDS; ocular disorder;  
XX acquired immunodeficiency virus; dysphagia; gastrointestinal disorder;  
XX adenocarcinoma; reproductive system disorder; testicular feminisation;  
XX endocrine disorder; diabetes; cancer; leukaemia; neovascularisation;  
XX respiratory disorder; renal disorder; kidney failure; blood disorder;  
XX myocardial infarction; wound healing; cell proliferation; skin aging;  
XX food additive; food preservative; gene therapy; gene; ss.  
XX  
OS Homo sapiens.  
XX  
XX W0200155318-A2.  
XX  
XX 02-AUG-2001.  
XX  
XX 17-JAN-2001; 2001WO-US01332.  
XX  
XX  
XX 31-JAN-2000; 2000US-0179065.  
XX 04-FEB-2000; 2000US-0180628.  
XX 24-FEB-2000; 2000US-0184664.  
XX 02-MAR-2000; 2000US-0186350.  
XX 16-MAR-2000; 2000US-0189874.  
XX 17-MAR-2000; 2000US-0190076.  
XX 18-APR-2000; 2000US-0198123.  
XX 19-MAY-2000; 2000US-0205515.  
XX 07-JUN-2000; 2000US-0209467.  
XX 28-JUN-2000; 2000US-0214886.  
XX 30-JUN-2000; 2000US-0215135.  
XX 07-JUL-2000; 2000US-0216647.  
XX 07-JUL-2000; 2000US-0216880.  
XX 11-JUL-2000; 2000US-0217487.  
XX 14-JUL-2000; 2000US-0217496.  
XX 26-JUL-2000; 2000US-0218290.  
XX 26-JUL-2000; 2000US-0230963.  
XX 26-JUL-2000; 2000US-0230964.  
XX 14-AUG-2000; 2000US-0224518.  
XX 14-AUG-2000; 2000US-0224519.  
XX 14-AUG-2000; 2000US-0225213.  
XX 14-AUG-2000; 2000US-0225214.  
XX 14-AUG-2000; 2000US-0225266.  
XX 14-AUG-2000; 2000US-0225267.  
XX 14-AUG-2000; 2000US-0225268.  
XX 14-AUG-2000; 2000US-0225268.  
XX 14-AUG-2000; 2000US-0225270.  
XX 14-AUG-2000; 2000US-0225447.  
XX 14-AUG-2000; 2000US-0225757.  
XX 14-AUG-2000; 2000US-0235758.  
XX 14-AUG-2000; 2000US-0235759.  
XX 18-AUG-2000; 2000US-0226279.  
XX 22-AUG-2000; 2000US-0226681.  
XX 22-AUG-2000; 2000US-0226868.  
XX 22-AUG-2000; 2000US-0227182.  
XX 23-AUG-2000; 2000US-0227009.

PR 30-AUG-2000; 2000US-0228924.  
PR 01-SEP-2000; 2000US-0229287.  
PR 01-SEP-2000; 2000US-0229343.  
PR 01-SEP-2000; 2000US-0229344.  
PR 01-SEP-2000; 2000US-0229345.  
PR 05-SEP-2000; 2000US-0229509.  
PR 05-SEP-2000; 2000US-0229513.  
PR 06-SEP-2000; 2000US-0230437.  
PR 06-SEP-2000; 2000US-0230438.  
PR 08-SEP-2000; 2000US-0231242.  
PR 08-SEP-2000; 2000US-0231243.  
PR 08-SEP-2000; 2000US-0231244.  
PR 08-SEP-2000; 2000US-0231413.  
PR 08-SEP-2000; 2000US-0231414.  
PR 08-SEP-2000; 2000US-0232080.  
PR 08-SEP-2000; 2000US-0232081.  
PR 12-SEP-2000; 2000US-0231968.  
PR 14-SEP-2000; 2000US-0232397.  
PR 14-SEP-2000; 2000US-0232398.  
PR 14-SEP-2000; 2000US-0232399.  
PR 14-SEP-2000; 2000US-0232400.  
PR 14-SEP-2000; 2000US-0232401.  
PR 14-SEP-2000; 2000US-0233063.  
PR 14-SEP-2000; 2000US-0233064.  
PR 14-SEP-2000; 2000US-0233065.  
PR 21-SEP-2000; 2000US-0234223.  
PR 21-SEP-2000; 2000US-0234274.  
PR 25-SEP-2000; 2000US-0234997.  
PR 25-SEP-2000; 2000US-0234998.  
PR 26-SEP-2000; 2000US-0235484.  
PR 27-SEP-2000; 2000US-0235834.  
PR 27-SEP-2000; 2000US-0235836.  
PR 29-SEP-2000; 2000US-0236327.  
PR 29-SEP-2000; 2000US-0236367.  
PR 29-SEP-2000; 2000US-0236368.  
PR 29-SEP-2000; 2000US-0236369.  
PR 29-SEP-2000; 2000US-0236370.  
PR 02-OCT-2000; 2000US-0236802.  
PR 02-OCT-2000; 2000US-0237037.  
PR 02-OCT-2000; 2000US-0237038.  
PR 02-OCT-2000; 2000US-0237039.  
PR 02-OCT-2000; 2000US-0237040.  
PR 13-OCT-2000; 2000US-0239935.  
PR 13-OCT-2000; 2000US-0239937.  
PR 20-OCT-2000; 2000US-0240960.  
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PR 20-OCT-2000; 2000US-0241785.  
PR 20-OCT-2000; 2000US-0241786.  
PR 20-OCT-2000; 2000US-0241787.  
PR 20-OCT-2000; 2000US-0241808.  
PR 20-OCT-2000; 2000US-0241809.  
PR 20-OCT-2000; 2000US-0241826.  
PR 01-NOV-2000; 2000US-0244611.  
PR 08-NOV-2000; 2000US-0246474.  
PR 08-NOV-2000; 2000US-0246475.  
PR 08-NOV-2000; 2000US-0246476.  
PR 08-NOV-2000; 2000US-0246477.  
PR 08-NOV-2000; 2000US-0246478.  
PR 08-NOV-2000; 2000US-0246523.  
PR 08-NOV-2000; 2000US-0246524.  
PR 08-NOV-2000; 2000US-0246525.  
PR 08-NOV-2000; 2000US-0246526.  
PR 08-NOV-2000; 2000US-0246527.  
PR 08-NOV-2000; 2000US-0246528.  
PR 08-NOV-2000; 2000US-0246532.  
PR 08-NOV-2000; 2000US-0246609.  
PR 08-NOV-2000; 2000US-0246610.  
PR 08-NOV-2000; 2000US-0246611.  
PR 08-NOV-2000; 2000US-0246613.  
PR 17-NOV-2000; 2000US-0249207.  
PR 17-NOV-2000; 2000US-0249208.  
PR 17-NOV-2000; 2000US-0249209.  
PR 17-NOV-2000; 2000US-0249210.



PR 17-NOV-2000; 2000US-0249211.  
 PR 17-NOV-2000; 2000US-0249212.  
 PR 17-NOV-2000; 2000US-0249213.  
 PR 17-NOV-2000; 2000US-0249214.  
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 PR 17-NOV-2000; 2000US-0249297.  
 PR 17-NOV-2000; 2000US-0249299.  
 PR 17-NOV-2000; 2000US-0249300.  
 PR 01-DEC-2000; 2000US-0250160.  
 PR 01-DEC-2000; 2000US-0250391.  
 PR 05-DEC-2000; 2000US-0251030.  
 PR 05-DEC-2000; 2000US-0251988.  
 PR 05-DEC-2000; 2000US-0256719.  
 PR 06-DEC-2000; 2000US-0251479.  
 PR 08-DEC-2000; 2000US-0251856.  
 PR 08-DEC-2000; 2000US-0251868.  
 PR 08-DEC-2000; 2000US-0251869.  
 PR 08-DEC-2000; 2000US-0251989.  
 PR 08-DEC-2000; 2000US-0251990.  
 PR 11-DEC-2000; 2000US-0254097.  
 PR 05-JAN-2001; 2001US-0259678.  
 PA (HUMA-) HUMAN GENOME SCI INC.  
 XX  
 PI Rosen CA, Barash SC, Ruben SW;  
 XX  
 DR WPI: 2001-581633/65.  
 DR P-PSDB; AA087243.  
 PT New isolated nucleic acid encoding a protein for diagnosing,  
 PT preventing, treating or ameliorating medical conditions and used as  
 PT food additives or preservatives -  
 XX  
 XX  
 XX Claim 1: SEQ ID No 163; 837bp; English.  
 XX  
 XX The invention describes an isolated nucleic acid molecule (I) encoding a  
 CC novel central nervous system protein. (I) and polypeptides (II) encoded  
 CC by (I), are used to treat a medical conditions and in diagnosis of a  
 CC pathological condition. Disorders which are diagnosed or treated include  
 CC autoimmune diseases e.g. rheumatoid arthritis, hyperproliferative  
 CC disorders e.g. neoplasms of the breast or liver, cardiovascular disorders  
 CC e.g. cardiac arrest, cerebrovascular disorders e.g. cerebral ischemia,  
 CC anglogenesis, nervous system disorders e.g. Alzheimer's disease and  
 CC amyotrophic lateral sclerosis, infections caused by bacteria, viruses  
 CC e.g. Acquired immunodeficiency virus (AIDS) and fungi, ocular disorders  
 CC e.g. corneal infection, gastrointestinal disorders e.g. dysphagia,  
 CC adenocarcinomas and irritable bowel syndrome, reproductive system  
 CC disorders e.g. testicular feminisation, endocrine disorders e.g. diabetes  
 CC and pituitary dwarfism, cancers and disorders at the cellular level e.g.  
 CC leukaemia, disorders involving neovascularisation e.g. malignancies,  
 CC respiratory disorders e.g. nonallergic rhinitis, renal disorders e.g.  
 CC acute kidney failure and blood related disorders e.g. myocardial  
 CC infarction. The polypeptides can also be used to aid wound healing and  
 CC epithelial cell proliferation, to prevent skin aging due to sunburn, to  
 CC maintain organs before transplantation, for supporting cell culture of  
 CC primary tissues, to regenerate tissues and in chemotaxis. The  
 CC polypeptides can also be used as a food additive or preservative to  
 CC increase or decrease storage capabilities, fat content, lipid, protein,  
 CC  
 Query Match 92.7%; Score 439.2; DB 23; Length 1162;  
 Best local Similarity 96.8%; Pred. No. 3.5e-109; Indels 2; Gaps 1;  
 Matches 459; Conservative 0; Mismatches 13;  
 OY 1 GCCGAGTTTATTCAGTGGCATTTCCTTGATTAATTTGGCGCATTATCATCA 60  
 DB 1080 GCCGAGTTTATTCAGTGGCATTTCCTTGATTAATTTGGCGCATTATCATCA 1021

OY 61 GTTTTTCCTATGAGCATGTTTATAGTGTATCATCAAGTGCATTAACGACACTGAA 120  
 DB 1020 GTTTTTCCTATGAGCATGTTTATAGTGTATCATCAAGTGCATTAACGACACTGAA 961  
 OY 121 ATACGGAATCAAGTTAAAAAGATGATCCTTGCCAAAGCTTTTCTTTATATGTA 180  
 DB 960 ATACGGAATCAAGTTAAAAAGATGATCCTTGCCAAAGCTTTTCTTTATATGTA 901  
 OY 181 ACTGATGATTAAGCTGTGATACCCATTTTGTAGGAAACCTTTTCACTGCTCAGGTA 240  
 DB 900 ACTGATGATTAAGCTGTGATACCCATTTTGTAGGAAATTTCTTCACTGCTCAGGTA 841  
 OY 241 GAAATACAGGTACCATTAACCTCTTGGGTAGTATGTTATTCCTCCATTAACAGTCT 300  
 DB 840 GAAATACAGGTACCATTAACCTCTTGGGTAGTATGTTATTCCTCCATTAACAGTCT 781  
 OY 301 TTGAACCAATTCCTATATCTGTACGCAACAAGCATTTAAGAAATGATTCATCGGTTT 360  
 DB 780 TTGAACCAATTCCTATATCTGTACGCAACAAGCATTTAAGAAATGATTCATCGGTTT 721  
 OY 361 TGGCATTACTACAGCAAAAGAAATCTATGACAGCAAGGATTCAGAAAATATATGCTC 420  
 DB 720 TGGTATTACTACAGCAAAAGAAATCTATGACAGCAAGGATTCAGAAAATATATGCTC 663  
 OY 421 CATCATTTCACTGGGGGAAAAATGTGCCCATGCGAGAGATGCCACGTGAGTTAA 474  
 DB 662 CATCATTTCACTGGGGGAAAAATGTGCCCATGCGAGAGATGCCACGTGAGTTAA 609  
 RESULT 4  
 AAD06507  
 ID AAD06507 standard; DNA; 1191 BP.  
 AC  
 AC AAD06507;  
 XX  
 DT 10-AUG-2001 (first entry)  
 XX  
 DE Human CON222 G protein-coupled receptor DNA.  
 XX  
 KW Human; G protein-coupled receptor; GPCR; CON222 protein; schizophrenia;  
 KW neuroleptic; nootropic; neuroprotective; bipolar disease; psychotropic;  
 KW neurological disorder; psychiatric disease; psychosis; anxiety; neuritis;  
 KW attention deficit hyperactivity disorder; neuropsychia; senile dementia;  
 KW affective disorder; neuropathy; Alzheimer's disease; Parkinson's disease;  
 KW depression; migraine; genetic screening; ds.  
 XX  
 OS Homo sapiens.  
 XX  
 FH Key Location/Qualifiers  
 FT CDS 1..1191  
 FT /tag= a  
 FT /product= "Human G protein-coupled receptor protein"  
 XX  
 PN MO200131014-A2.  
 XX  
 PD 03-MAY-2001.  
 XX  
 PF 27-OCT-2000; 2000MO-US29601.  
 XX  
 PR 27-OCT-1999; 99US-0427653.  
 PR 27-OCT-1999; 99US-0427859.  
 PR 27-OCT-1999; 99US-0428020.  
 PR 27-OCT-1999; 99US-0428114.  
 PR 27-OCT-1999; 99US-0428517.  
 PR 28-OCT-1999; 99US-0429555.  
 PR 28-OCT-1999; 99US-0429676.  
 PR 28-OCT-1999; 99US-0429695.  
 PR 03-DEC-1999; 99US-0454399.  
 PR 12-JAN-2000; 2000US-0481794.  
 XX  
 PA (FHAA ) PHARMACIA & UPJOHN CO.  
 XX

PI Vogeli G, Wood LS, Merchant K;

XX WPI, 2001-328653/34.

DR P-PSDB; AAE02498.

XX  
XX Seven transmembrane receptor polypeptides and polynucleotides, useful  
PT for treating neurological or psychiatric disorders, e.g. schizophrenia,  
PT as well as for identifying compounds useful for treating schizophrenia

PS Claim 22; Page 15-16; 215pp; English.

XX  
XX The invention relates to human G protein-coupled receptor (GPCR) and  
CC their corresponding DNA molecules. GPCR is also referred as seven  
CC transmembrane receptor. G protein-coupled receptor protein is useful for  
CC treating neurological disorder, particularly schizophrenia. GPCR protein  
CC is also useful for identifying compounds useful for treating  
CC schizophrenia. These compounds are also useful for treating other  
CC neurological and psychiatric diseases, e.g. depression, anxiety, bipolar  
CC diseases, affective disorders, attention deficit hyperactivity disorder/  
CC attention deficit disorder, epilepsy, neuritis, neuromasthenia, neuropathy,  
CC neurosis, Alzheimer's disease, Parkinson's disease, migraine and senile  
CC dementia. The invention also provides genetic screening procedures that  
CC entail analysing a person's genome with respect to GPCR. The vectors are  
CC useful for the recombinant production of the GPCR's. The present DNA  
CC sequence encodes human CON222 G protein-coupled receptor (GPCR) protein.

XX Sequence 1191 BP; 340 A; 229 C; 226 G; 396 T; 0 other;

Query Match 92.7%; Score 439.2; DB 22; Length 1191;

Best Local Similarity 96.8%; Pred. No. 3.5e-109;

Matches 459; Conservative 0; Mismatches 13; Indels 2; Gaps 1;

OY 1 GCCGAGTTTATTCGTCGCAATTTTCTGTATTAATTGGCCGCAATTTATCATATA 60  
DB 643 GCCGAGTTTATTCGTCGCAATTTTCTGTATTAATTGGCCGCAATTTATCATATA 702  
OY 61 GTTTTTCCTATGAGAGATGTTTATGATGTCATCAAGTGCATTAACGCACTGAA 120  
DB 703 GTTTTTCCTATGAGAGATGTTTATGATGTCATCAAGTGCATTAACGCACTGAA 762  
OY 121 ATACGGAATCAAGTTAAAGAGATGATCCTTGGCAACGTTTCTTATATGATTT 180  
DB 763 ATACGGAATCAAGTTAAAGAGATGATCCTTGGCAACGTTTCTTATATGATTT 822  
OY 181 ACTGATGATTAATGCTGAGTACCATTTTGTAGGAAACCTTTTCACTGCTCAAGTA 240  
DB 823 ACTGATGATTAATGCTGAGTACCATTTTGTAGGAAACCTTTTCACTGCTCAAGTA 882  
241 GAAATACAGAGTACATTAACCTTGGTATGATGTTATTTGTCATTAACAGTGT 300  
DB 883 GAAATACAGAGTACATTAACCTTGGTATGATGTTATTTGTCATTAACAGTGT 942  
OY 301 TGAACCCCAATCTCTATATCTGACCAAGACACATTTAAAGAAATGATTCGTTTT 360  
DB 943 TGAACCCCAATCTCTATATCTGACCAAGACACATTTAAAGAAATGATTCGTTTT 1002  
OY 361 TGGCATTAATCAAGCAAGAAATCTATGAGACAGCAAGGATACAGAAATATGCTC 420  
DB 1003 TGGTATTAATCAAGCAAGAAATCTATGAGACAGCAAGG-TCAGAAATATGCTC 1060  
OY 421 CATCATTAATCTGGGGGAAATGTCGCACTGCAAGAGATGCCCTGAGTTAA 474  
DB 1061 CATCATTAATCTGGGGGAAATGTCGCACTGCAAGAGATGCCCTGAGTTAA 1114

RESULT 5

AA290524

ID AA290524 standard; cDNA; 1804 BP.

XX AA290524;

DT 05-JUN-2000 (first entry)

XX Human GPCR protein (HGPR) encoding cDNA (clone ID 2488822).

XX Human; G protein coupled protein receptor; HGPR; cell proliferation;  
XX neurological; immune disorder; cytostatic; anti-arteriosclerotic;  
XX anti-atherosclerotic; hepatotropic; antiinflammatory; virucide; leukemia;  
XX immunomodulatory; anemia; asthma; gastrointestinal; anti-epileptic;  
XX anti-Alzheimer's; anti-Parkinsonian; gene therapy; ss.

OS Homo sapiens.

PN WO200015793-A2.

PD 23-MAR-2000.

PE 17-SEP-1999; 99MO-US20958.

PR 17-SEP-1998; 98US-0156513.

XX (INCY-) INCYTE PHARM INC.

PI Bandman O, Lal P, Tang YT, Corley NC, Guegler KJ, Gorgone GA;

PI Baughn MR;

DR WPI; 2000-271432/23.

DR P-PSDB; AAY57286.

XX  
XX Human G protein coupled protein receptor peptides useful for the  
PT prevention, diagnosis and treatment of cell proliferative, neurological  
PT and immune disorders -

PS Claim 9; Page 69-70; 71pp; English.

XX  
XX The invention provides human G protein coupled protein receptor (HGPR)  
CC polypeptides and polynucleotides encoding them. The polypeptides can be  
CC produced by standard recombinant methodology. The polynucleotides and  
CC polypeptides may be used in the prevention, treatment and diagnosis of  
CC diseases associated with their inappropriate expression. Diseases that  
CC can be treated are cell proliferative disorders (e.g. arteriosclerosis,  
CC atherosclerosis and hepatitis), cancers (e.g. leukemia, melanomas and  
CC adenocarcinoma), immune disorders (e.g. anemia, asthma and Crohn's  
CC disease) and neurological disorders (e.g. epilepsy, Alzheimer's disease  
CC and Parkinson's disease). The anti-HGPR antibodies may also be used as  
CC diagnostic agents for detecting the presence of HGPR polypeptides in  
CC samples (e.g. by enzyme linked immunosorbent assay (ELISA)). Sequences  
CC AA290521-526 represent cDNA fragments encoding the HGPR polypeptides  
CC (AAY57283-288).

XX Sequence 1804 BP; 563 A; 318 C; 327 G; 596 T; 0 other;

Query Match 92.7%; Score 439.2; DB 21; Length 1804;

Best Local Similarity 96.8%; Pred. No. 4e-109;

Matches 459; Conservative 0; Mismatches 13; Indels 2; Gaps 1;

OY 1 GCCGAGTTTATTCGTCGCAATTTTCTGTATTAATTGGCCGCAATTTATCATATA 60  
DB 792 GCCGAGTTTATTCGTCGCAATTTTCTGTATTAATTGGCCGCAATTTATCATATA 851  
OY 61 GTTTTTCCTATGAGAGATGTTTATGATGTCATCAAGTGCATTAACGCACTGAA 120  
DB 852 GTTTTTCCTATGAGAGATGTTTATGATGTCATCAAGTGCATTAACGCACTGAA 911  
OY 121 ATACGGAATCAAGTTAAAGAGATGATCCTTGGCAACGTTTCTTATATGATTT 180  
DB 912 ATACGGAATCAAGTTAAAGAGATGATCCTTGGCAACGTTTCTTATATGATTT 971  
OY 181 ACTGATGATTAATGCTGAGTACCATTTTGTAGGAAACCTTTTCACTGCTCAAGTA 240  
DB 972 ACTGATGATTAATGCTGAGTACCATTTTGTAGGAAACCTTTTCACTGCTCAAGTA 1031  
OY 241 GAAATACAGAGTACATTAACCTTGGTATGATGTTATTTGTCATTAACAGTGT 300  
DB 1032 GAAATACAGAGTACATTAACCTTGGTATGATGTTATTTGTCATTAACAGTGT 1091

QY 301 TTGAACCAATTCCTATATCTGACACAAAGCCATTAAAGAAATGATTCATGGTTT 360  
DB 1092 TTGAACCAATTCCTATATCTGACACAAAGCCATTAAAGAAATGATTCATGGTTT 1151  
QY 361 TGGCATTAATCTACAGACAAAGAAATCTATGACAGCAAGATATCAGAAAACATATGCTC 420  
DB 1152 TGGTAAATCTACAGACAAAGAAATCTATGACAGCAAGATATGCTC 1209  
QY 421 CATCATTCATCTGGGGGGGAAATGTGGCCACTGACAGAGATGACACTGATTAA 474  
DB 1210 CATCATTCATCTGGGGGGGAAATGTGGCCACTGACAGAGATGACACTGATTAA 1263

RESULT 6  
AAZ25345  
ID AAZ25345 standard; cDNA; 2467 BP.  
AC AAZ25345;  
AC AAZ25345;  
XX 20-DEC-1999 (first entry)

DE Human LGR7 long form nucleotide sequence.  
XX  
XX Human; LGR4; LGR5; LGR7; G-protein coupled receptor; gene therapy;  
KM extracellular leucine rich repeat region; mapping; identification; ss.  
XX  
XX Homo sapiens.  
XX MO9948921-AL.  
XX 30-SEP-1999.  
XX 25-MAR-1999; 99WO-US06573.  
XX 26-MAR-1998; 98US-0079501.  
XX (STRD ) UNIV LELAND STANFORD JUNIOR.  
PA (ORGA ) ORGANON NV.  
PI Hsueh AJW, Hsu SY, Liang S, Van Der Spek PJ,  
XX WPI; 1999-591074/50.  
DR P-PSDB; AAY42170.  
XX  
XX New G-protein coupled receptors, useful for identifying their own  
PT ligands -

Claim 4; Fig 3; 54pp; English.

CC The present sequence encodes the human G-protein coupled receptor  
CC having extracellular leucine rich repeat regions, designated LGR7 long  
CC form. The LGR4, LGR5 and LGR7 proteins are used to identify ligands for  
CC the receptor. The polypeptides and/or polynucleotides are also useful  
CC for homologous or related genes, producing compositions that modulate  
CC the expression or function of the receptors, gene therapy, mapping  
CC functional regions of the receptors, studying associated physiological  
CC pathways, in vivo prophylactic and therapeutic purposes, as immunogens  
CC for producing antibodies, and for identifying biologically active  
CC agents. The polypeptides contain a G-protein coupled seven  
CC transmembrane region and a leucine rich repeat extracellular domain.  
CC These regions capture and facilitate optimal orientation of its ligand.  
CC The proteins are also expressed in diverse tissues.  
XX  
XX  
SQ Sequence 2467 BP; 747 A; 487 C; 474 G; 759 T; 0 other;

Query Match 92.7%; Score 439.2; DB 20; Length 2467;  
Best Local Similarity 96.8%; Pred. No 4.4e-109;  
Matches 459; Conservative 0; Mismatches 13; Indels 2; Gaps 1;

QY 1 GCCCAGATTATTCAGTGGCAATTTCTTGGTATTAATTTGGCCGATTATCATCATATA 60  
DB 1919 GCCCAGATTATTCAGTGGCAATTTCTTGGTATTAATTTGGCCGATTATCATCATATA 1978

QY 61 GTTTTTCTATGAGACATGTTTTATATGTTTCATCAAAAGTCCATTAACGACACTGAA 120  
DB 1979 GTTTTTCTATGAGACATGTTTTATATGTTTCATCAAAAGTCCATTAACGACACTGAA 2038  
QY 121 ATACGAATCAAGTTAAAGAAAGATGATGCTTGGCCAAAGTTTTTCTTATAGTATTT 180  
DB 2039 ATACGAATCAAGTTAAAGAAAGATGATGCTTGGCCAAAGTTTTTCTTATAGTATTT 2098  
QY 181 ACTGATCATTAATGCTGATGATACCATTTTGTAGCGAAACCTCTTCACTGCTTCAAGTA 240  
DB 2099 ACTGATCATTAATGCTGATGATACCATTTTGTAGCGAAATTTCTTCACTGCTTCAAGTA 2158  
QY 241 GAATTAACAGATACATTAACCTCTTGGGTATGATGTTATTTCTCCATTAACAGTGCT 300  
DB 2159 GAATTAACAGATACATTAACCTCTTGGGTATGATGTTATTTATTTGCCCCATTAACAGTGCT 2218  
QY 301 TTGAACCAATTCCTATATCTGACACAAAGCCATTAAAGAAATGATTCATGGTTT 360  
DB 2219 TTGAACCAATTCCTATATCTGACACAAAGCCATTAAAGAAATGATTCATGGTTT 2278  
QY 361 TGGCATTAATCTACAGACAAAGAAATCTATGACAGCAAGATATCAGAAAACATATGCTC 420  
DB 2279 TGGTAAATCTACAGACAAAGAAATCTATGACAGCAAGATATGCTC 2336  
QY 421 CATCATTCATCTGGGGGGGAAATGTGGCCACTGACAGAGATGACACTGATTAA 474  
DB 2337 CATCATTCATCTGGGGGGGAAATGTGGCCACTGACAGAGATGACACTGATTAA 2390

RESULT 7  
AAZ25346  
ID AAZ25346 standard; cDNA; 3584 BP.  
AC AAZ25346;  
AC AAZ25346;  
XX 20-DEC-1999 (first entry)

DE Human LGR7 short form nucleotide sequence.  
XX  
XX Human; LGR4; LGR5; LGR7; G-protein coupled receptor; gene therapy;  
KM extracellular leucine rich repeat region; mapping; identification; ss.  
XX  
XX Homo sapiens.  
XX MO9948921-AL.  
XX 30-SEP-1999.  
XX 25-MAR-1999; 99WO-US06573.  
XX 26-MAR-1998; 98US-0079501.  
XX (STRD ) UNIV LELAND STANFORD JUNIOR.  
PA (ORGA ) ORGANON NV.  
PI Hsueh AJW, Hsu SY, Liang S, Van Der Spek PJ,  
XX WPI; 1999-591074/50.  
DR P-PSDB; AAY42171.  
XX  
XX New G-protein coupled receptors, useful for identifying their own  
PT ligands -

Claim 4; Fig 4; 54pp; English.

CC The present sequence encodes the human G-protein coupled receptor  
CC having extracellular leucine rich repeat regions, designated LGR7 short  
CC form. The LGR4, LGR5 and LGR7 proteins are used to identify ligands for  
CC the receptor. The polypeptides and/or polynucleotides are also useful  
CC for homologous or related genes, producing compositions that modulate  
CC the expression or function of the receptors, gene therapy, mapping  
CC functional regions of the receptors, studying associated physiological

CC pathways, in vivo prophylactic and therapeutic purposes, as immunogens  
CC for producing antibodies, and for identifying biologically active  
CC agents. The polypeptides contain a G-protein coupled seven  
CC transmembrane region and a leucine rich repeat extracellular domain.  
CC These regions capture and facilitate optimal orientation of its ligand.  
CC The proteins are also expressed in diverse tissues.

CC Sequence 3584 BP; 1124 A; 670 C; 647 G; 1139 T; 4 other;

Query Match 92.7%; Score 439.2; DB 20; Length 3584;  
Best Local Similarity 96.8%; Pred. No. 4,9e-109;  
Matches 459; Conservative 0; Mismatches 13; Indels 2; Gaps 1;

QY 1 GCCCAGATTATTCAGTGGCAATTTCTTGTAATTTGGCCCATTTATCATCA 60  
DB 1744 GCCCAGATTATTCAGTGGCAATTTCTTGTAATTTGGCCCATTTATCATCA 1803  
QY 61 GTTTTTCCTATGGAAGCATGTTTATAGTTCATCAAGGCCATAACAGACTGAA 120  
DB 1804 GTTTTTCCTATGGAAGCATGTTTATAGTTCATCAAGGCCATAACAGACTGAA 1863  
QY 121 ATACGGAATCAAGTAAAAAGAGATGATCCTTGCCAAAGTTTCTTATATATTT 180  
DB 1864 ATACGGAATCAAGTAAAAAGAGATGATCCTTGCCAAAGTTTCTTATATATTT 1923  
QY 181 ACTGATGATTAATGCTGGATACCCATTTTGTAGCGAAACCTCTTCACGCTTCAGGTA 240  
DB 1924 ACTGATGATTAATGCTGGATACCCATTTTGTAGCGAAATTTCTTCACGCTTCAGGTA 1983  
QY 241 GAAATACAGATGACCAATACCTCTGGGATGATGTTGATTCGACATTACAGTGCT 300  
DB 1984 GAAATACAGATGACCAATACCTCTGGGATGATGTTGATTCGACATTACAGTGCT 2043  
QY 301 TTGAACCAATTCCTATCTGACCAAGACATTTAAAGAAATGATTCATCGGTTT 360  
DB 2044 TTGAACCAATTCCTATCTGACCAAGACATTTAAAGAAATGATTCATCGGTTT 2103  
QY 361 TGGCATTAATCAAGCAAGAAATCTATGACAGCAAGATATCGAAATATGCTC 420  
DB 2104 TGGCATTAATCAAGCAAGAAATCTATGACAGCAAGATATCGAAATATGCTC 2161  
QY 421 CATGATTCATGCGGGGAATGTGGCACTGACAGAGATGCCACTGAGTTAA 474  
DB 2162 CATGATTCATGCGGGGAATGTGGCACTGACAGAGATGCCACTGAGTTAA 2215

## RESULT 8

AAI99584 standard; cDNA; 530 BP.

AAI99584;

04-JAN-2002 (first entry)

Human expressed polynucleotide SEQ ID NO 47.

Human; nootropic; neuroprotective; cytostatic; dermatological; virocidic;  
immunosuppressive; antitumorigenic; anti-HIV; antibacterial; vulnery;  
antiparkinsonian; antidiabetic; antianemic; antitubercular; cancer;  
antileukemic; hepatoprotective; cerebroprotective; antiinflammatory;  
antidiabetic; antitubercular; anticonvulsant; antifungal;  
antiparasitic; cardiac; immune disorder; cardiovascular disorder;  
neurological disease; infection; nephrotoxic; gene therapy; vaccine;  
88.

Homo sapiens.

WO200155387-A1.

02-AUG-2001.

17-JAN-2001; 2001WO-US01310.

PR 31-JAN-2000; 2000US-0179065.  
PR 04-FEB-2000; 2000US-0180628.  
PR 24-FEB-2000; 2000US-0184564.  
PR 02-MAR-2000; 2000US-0186350.  
PR 16-MAR-2000; 2000US-0189874.  
PR 17-MAR-2000; 2000US-0190076.  
PR 18-APR-2000; 2000US-0198123.  
PR 19-MAY-2000; 2000US-0205515.  
PR 07-JUN-2000; 2000US-0209467.  
PR 28-JUN-2000; 2000US-0214886.  
PR 30-JUN-2000; 2000US-0215135.  
PR 07-JUL-2000; 2000US-0216647.  
PR 07-JUL-2000; 2000US-0216880.  
PR 11-JUL-2000; 2000US-0217487.  
PR 11-JUL-2000; 2000US-0217496.  
PR 14-JUL-2000; 2000US-0218280.  
PR 26-JUL-2000; 2000US-0220963.  
PR 26-JUL-2000; 2000US-0220964.  
PR 14-AUG-2000; 2000US-0224518.  
PR 14-AUG-2000; 2000US-0224519.  
PR 14-AUG-2000; 2000US-0225213.  
PR 14-AUG-2000; 2000US-0225214.  
PR 14-AUG-2000; 2000US-0225286.  
PR 14-AUG-2000; 2000US-0225287.  
PR 14-AUG-2000; 2000US-0225288.  
PR 14-AUG-2000; 2000US-0225270.  
PR 14-AUG-2000; 2000US-0225447.  
PR 14-AUG-2000; 2000US-0225757.  
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PR 14-AUG-2000; 2000US-0225759.  
PR 18-AUG-2000; 2000US-0226279.  
PR 22-AUG-2000; 2000US-0226681.  
PR 22-AUG-2000; 2000US-0226868.  
PR 22-AUG-2000; 2000US-0227182.  
PR 23-AUG-2000; 2000US-0227709.  
PR 30-AUG-2000; 2000US-0228924.  
PR 01-SEP-2000; 2000US-0229287.  
PR 01-SEP-2000; 2000US-0229343.  
PR 01-SEP-2000; 2000US-0229344.  
PR 01-SEP-2000; 2000US-0229345.  
PR 05-SEP-2000; 2000US-0229509.  
PR 05-SEP-2000; 2000US-0229513.  
PR 06-SEP-2000; 2000US-0230437.  
PR 06-SEP-2000; 2000US-0230438.  
PR 08-SEP-2000; 2000US-0231242.  
PR 08-SEP-2000; 2000US-0231243.  
PR 08-SEP-2000; 2000US-0231244.  
PR 08-SEP-2000; 2000US-0231413.  
PR 08-SEP-2000; 2000US-0231414.  
PR 08-SEP-2000; 2000US-0232080.  
PR 08-SEP-2000; 2000US-0232081.  
PR 12-SEP-2000; 2000US-0231968.  
PR 14-SEP-2000; 2000US-0232397.  
PR 14-SEP-2000; 2000US-0232398.  
PR 14-SEP-2000; 2000US-0232399.  
PR 14-SEP-2000; 2000US-0232400.  
PR 14-SEP-2000; 2000US-0232401.  
PR 14-SEP-2000; 2000US-0232403.  
PR 14-SEP-2000; 2000US-0233064.  
PR 14-SEP-2000; 2000US-0233065.  
PR 21-SEP-2000; 2000US-0234274.  
PR 21-SEP-2000; 2000US-0234275.  
PR 25-SEP-2000; 2000US-0234997.  
PR 25-SEP-2000; 2000US-0234998.  
PR 26-SEP-2000; 2000US-0235484.  
PR 27-SEP-2000; 2000US-0235834.  
PR 27-SEP-2000; 2000US-0235836.  
PR 29-SEP-2000; 2000US-0236327.  
PR 29-SEP-2000; 2000US-0236367.  
PR 29-SEP-2000; 2000US-0236368.  
PR 29-SEP-2000; 2000US-0236369.  
PR 29-SEP-2000; 2000US-0236370.  
PR 02-OCT-2000; 2000US-0236802.

PR 02-OCT-2000; 2000US-0237037.  
 PR 02-OCT-2000; 2000US-0237038.  
 PR 02-OCT-2000; 2000US-0237039.  
 PR 02-OCT-2000; 2000US-0237040.  
 PR 13-OCT-2000; 2000US-0239935.  
 PR 13-OCT-2000; 2000US-0239937.  
 PR 20-OCT-2000; 2000US-0240860.  
 PR 20-OCT-2000; 2000US-0241221.  
 PR 20-OCT-2000; 2000US-0241785.  
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 PR 20-OCT-2000; 2000US-0241787.  
 PR 20-OCT-2000; 2000US-0241808.  
 PR 20-OCT-2000; 2000US-0241809.  
 PR 20-OCT-2000; 2000US-0241826.  
 PR 01-NOV-2000; 2000US-0244617.  
 PR 08-NOV-2000; 2000US-0246474.  
 PR 08-NOV-2000; 2000US-0246475.  
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 PR 08-NOV-2000; 2000US-0246525.  
 PR 08-NOV-2000; 2000US-0246526.  
 PR 08-NOV-2000; 2000US-0246527.  
 PR 08-NOV-2000; 2000US-0246528.  
 PR 08-NOV-2000; 2000US-0246532.  
 PR 08-NOV-2000; 2000US-0246609.  
 PR 08-NOV-2000; 2000US-0246610.  
 PR 08-NOV-2000; 2000US-0246611.  
 PR 08-NOV-2000; 2000US-0246613.  
 PR 17-NOV-2000; 2000US-0249207.  
 PR 17-NOV-2000; 2000US-0249208.  
 PR 17-NOV-2000; 2000US-0249209.  
 PR 17-NOV-2000; 2000US-0249210.  
 PR 17-NOV-2000; 2000US-0249211.  
 PR 17-NOV-2000; 2000US-0249212.  
 PR 17-NOV-2000; 2000US-0249213.  
 PR 17-NOV-2000; 2000US-0249214.  
 PR 17-NOV-2000; 2000US-0249215.  
 PR 17-NOV-2000; 2000US-0249216.  
 PR 17-NOV-2000; 2000US-0249217.  
 PR 17-NOV-2000; 2000US-0249218.  
 PR 17-NOV-2000; 2000US-0249244.  
 PR 17-NOV-2000; 2000US-0249245.  
 PR 17-NOV-2000; 2000US-0249264.  
 PR 17-NOV-2000; 2000US-0249265.  
 PR 17-NOV-2000; 2000US-0249297.  
 PR 17-NOV-2000; 2000US-0249299.  
 PR 17-NOV-2000; 2000US-0249300.  
 PR 01-DEC-2000; 2000US-0250160.  
 PR 01-DEC-2000; 2000US-0250391.  
 PR 05-DEC-2000; 2000US-0251030.  
 PR 05-DEC-2000; 2000US-0251988.  
 PR 05-DEC-2000; 2000US-0256719.  
 PR 06-DEC-2000; 2000US-0251479.  
 PR 08-DEC-2000; 2000US-0251856.  
 PR 08-DEC-2000; 2000US-0251868.  
 PR 08-DEC-2000; 2000US-0251869.  
 PR 08-DEC-2000; 2000US-0251989.  
 PR 11-DEC-2000; 2000US-0251990.  
 PR 11-DEC-2000; 2000US-0254097.  
 PR 05-JAN-2001; 2001US-0259676.  
 XX  
 XX (HUMA-) HUMAN GENOME SCI INC.  
 PA  
 XX  
 PI Rosen CA, Barash SC, Ruben SM,  
 XX  
 DR WPI: 2001-465573/50.  
 DR P-PSDB; AAM99972.  
 XX  
 PT Isolated digestive system associated polypeptide for treating,  
 PT preventing and/ or prognosing disorders related to the digestive system

PT including digestive system cancers and also for testing and detection  
 PT e.g. diagnosis -  
 PS Claim 1; SEQ ID NO 47; 509pp + Sequence Listing; English.  
 XX  
 XX The invention relates to novel genes (AA199548-AA199604) and proteins  
 CC (AAM9936-AAM9984) useful for preventing, treating or ameliorating  
 CC medical conditions e.g. by protein or gene therapy. The genes are  
 CC isolated from a range of human tissues disclosed in the specification.  
 CC The nucleic acids, proteins, antibodies and (anti)agonists are useful  
 CC in the diagnosis, treatment and prevention of: (a) cancer, e.g. breast  
 CC and ovarian cancer and other cancers of the adrenal gland, bone, bone  
 CC marrow, breast, gastrointestinal tract, liver, lung, or urogenital;  
 CC (b) immune disorders e.g. Addison's disease, allergies, autoimmune  
 CC hemolytic anaemia, autoimmune thyroiditis, diabetes mellitus, Crohn's  
 CC disease, multiple sclerosis, rheumatoid arthritis and ulcerative  
 CC colitis; (c) cardiovascular disorders such as myocardial ischaemia;  
 CC (d) wound healing; (e) neurological diseases e.g. cerebral anoxia and  
 CC epilepsy; and (f) infectious diseases such as viral, bacterial, fungal  
 CC and parasitic infections.  
 CC Note: The sequence data for this patent did not form part of the  
 CC printed specification, but was obtained in electronic format directly  
 CC from WIPO at ftp.wipo.int/pub/published\_pct\_sequences.  
 CC  
 XX  
 SQ Sequence 530 BP; 158 A; 105 C; 95 G; 171 T; 1 other;

Query Match 92.6%; Score 438.8; DB 22; Length 530;  
 Best Local Similarity 96.6%; Pred. No. 3.5e-109;  
 Matches 458; Conservative 1; Mismatches 11; Indels 2; Gaps 1;

QY 1 GCCCAGATTATTCAGTGGCAATTTTCTGTATTAAATTTGGCCGATTTATCATCA 60  
 DB 2 GCCCAGATTATTCAGTGGCAATTTTCTGTATTAAATTTGGCCGATTTATCATCA 61  
 QY 61 GTTTTTCCTTGAACCATGTTTAAAGTTCATCAAAAGTCCATAACAGAACTGAA 120  
 DB 62 GTTTTTCCTTGAACCATGTTTAAAGTTCATCAAAAGTCCATAACAGAACTGAA 121  
 QY 121 ATACGATCAAGTAAAGATGATCCCTTCCAAAGTTTCTTAAATAGTATT 180  
 DB 122 ATACGATCAAGTAAAGATGATCCCTTCCAAAGTTTCTTAAATAGTATT 181  
 QY 181 ACTGATGATTAATGCTGATACCATTTTGTAGCCAAACCTTTTCACTGCTTCAGTA 240  
 DB 182 ACTGATGATTAATGCTGATACCATTTTGTAGCCAAACCTTTTCACTGCTTCAGTA 241  
 QY 241 GAAATACAGATACCATTAACCTTTGGTATGATTTGATTTCTGCAATTAACAGTGT 300  
 DB 242 GAAATACAGATACCATTAACCTTTGGTATGATTTGATTTCTGCAATTAACAGTGT 301  
 QY 301 TTGAACCAATTTCTTATCTCTGACCAACCAACATTTAAAGAAATGATTCATCGGTT 360  
 DB 302 TTGAACCAATTTCTTATCTCTGACCAACCAACATTTAAAGAAATGATTCATCGGTT 361  
 QY 361 TGGCAATTAACAGCAAAAGAAATCTATGACAGCAAAAGTATCGAAATATATGCTC 420  
 DB 362 TGGTATTAACAGCAAAAGAAATCTATGACAGCAAAAGTATCGAAATATATGCTC 419  
 QY 421 CATCATTAATCGGGGGAATGTGGCCATGACAGATGCACTGAGTTAA 474  
 DB 420 CATCATTAATCGGGGGAATGTGGCCATGACAGATGCACTGAGTTAA 473  
 RESULT 9  
 AAL35644  
 ID AAL35644 standard; cDNA; 530 BP.  
 XX  
 XX AAL35644;  
 AC  
 XX 08-JAN-2002 (first entry)  
 DT  
 XX  
 XX Human musculoskeletal system related polynucleotide SEQ ID NO 986.  
 DE  
 XX



PR 08-DEC-2000; 2000US-0251869.  
 PR 08-DEC-2000; 2000US-0251989.  
 PR 08-DEC-2000; 2000US-0251990.  
 PR 11-DEC-2000; 2000US-0254097.  
 PR 05-JAN-2001; 2001US-0259678.  
 XX  
 PA (HUMA-) HUMAN GENOME SCI INC.  
 PI Rosen CA, Barash SC, Ruben SM;  
 XX  
 DR WPI; 2001-451937/48.  
 DR P-PSDB; ABB04062.  
 XX  
 PT Isolated polypeptide for treating, preventing and/or prognosing  
 PT disorders related to the musculoskeletal system including  
 PT musculoskeletal cancers and also for testing and detection e.g.  
 PT diagnosis -  
 XX  
 PS Claim 1; SEQ ID NO 986; 781bp + Sequence Listing; English.  
 XX  
 CC The invention relates to novel genes (AAL34669-AAL37666) and proteins  
 CC (ABB03087-ABB04109) associated with the musculoskeletal system useful  
 CC for preventing, treating or ameliorating medical conditions e.g. by  
 CC protein or gene therapy. The genes are isolated from a range of human  
 CC tissues disclosed in the specification. The nucleic acids, proteins,  
 CC antibodies and (ant)agonists are useful in the diagnosis, treatment  
 CC and prevention of: (a) cancer, e.g. breast and ovarian cancer and  
 CC other cancers of the adrenal gland, bone, bone marrow, breast,  
 CC gastrointestinal tract, liver, lung, or urogenital; (b) immune  
 CC disorders e.g. Addison's disease, allergies, autoimmune hemolytic  
 CC anaemia, autoimmune thyroiditis, diabetes mellitus, Crohn's disease,  
 CC multiple sclerosis, rheumatoid arthritis and ulcerative colitis;  
 CC (c) cardiovascular disorders such as myocardial ischaemia; (d) wound  
 CC healing; (e) neurological diseases e.g. cerebral anoxia and epilepsy;  
 CC and (f) infectious diseases such as viral, bacterial, fungal and  
 CC parasitic infections.  
 CC Note: The sequence data for this patent did not form part of the  
 CC printed specification, but was obtained in electronic format directly  
 CC from WIPo at ftp.wipo.int/pub/published\_pct\_sequences.  
 CC  
 XX Sequence 530 BP; 158 A; 105 C; 95 G; 171 T; 1 other;  
 SQ  
 Query Match 92.6%; Score 438.8; DB 22; Length 530;  
 Best Local Similarity 96.6%; Pred. No. 3.5e-109;  
 Matches 458; Conservative 1; Mismatches 13; Indels 2; Gaps 1;  
 QY 1 GCCCAGATTATTCAGGCGCAATTTTCTGTAATTAATTTGGCCGATTATTCACATA 60  
 2 GCCCAGATTATTCAGGCGCAATTTTCTGTAATTAATTTGGCCGATTATTCACATA 61  
 QY 61 GTTTTTCCTATGAGACATGTTTATAGTTCATCAAGTCCATTAACAGCACTGAA 120  
 DB 62 GTTTTTCCTATGAGACATGTTTATAGTTCATCAAGTCCATTAACAGCACTGAA 121  
 QY 121 ATACGGAATCAAGTTAAAAAGAGATGATCTTCCCAAAGTCTTTTCTTATAGATTT 180  
 DB 122 ATACGGAATCAAGTTAAAAAGAGATGATCTTCCCAAAGTCTTTTCTTATAGATTT 181  
 QY 181 ACTGATGATTATGCTGATATCCATTTTGTAGCGAAACCTCTTCAACGCTTCAGGTA 240  
 DB 182 ACTGATGATTATGCTGATATCCATTTTGTAGCGAAATTTCTTCAACGCTTCAGGTA 241  
 QY 241 GAAATACAGGATCAATTAACCTTGGGTAGTATTGTTATTCGCAATTAACAGTGTCT 300  
 DB 242 GAAATACAGGATCAATTAACCTTGGGTAGTATTGTTATTCGCAATTAACAGTGTCT 301  
 QY 301 TTGAACCAATTCCTATATCTCGAACCAAGCCATTTTAAAGAAATGATTCATCGGTTT 360  
 DB 302 TTGAACCAATTCCTATATCTCGAACCAAGCCATTTTAAAGAAATGATTCATCGGTTT 361  
 QY 361 TGGCATTAATCAAGACAAAGAAATCTATGACAGCAAGATGATGAGAAACATATGCTC 420  
 DB 362 TGGCATTAATCAAGACAAAGAAATCTATGACAGCAAGATGATGAGAAACATATGCTC 419

QY 421 CATCATTCATCTGGGGGGAAGTGGCCATGCGACAGAGATGCCACTGAGTTAA 474  
 DB 420 CATCATTCATCTGGGGGGAAGTGGCCATGCGACAGAGATGCCACTGAGTTAA 473  
 RESULT 10  
 ABA06471  
 ID ABA06471 standard; cDNA; 530 BP.  
 XX  
 AC ABA06471;  
 XX  
 DT 10-JAN-2002 (first entry)  
 XX  
 DE Human cDNA SEQ ID NO: 137.  
 XX  
 KW Human; gene therapy; neural disorder; immune system disorder;  
 KW muscular disorder; reproductive disorder; gastrointestinal disorder;  
 KW pulmonary disorder; cardiovascular disorder; renal disorder;  
 KW proliferative disorder; inflammation; ss.  
 XX  
 OS Homo sapiens.  
 PN WO200154474-A2.  
 XX  
 PD 02-AUG-2001.  
 PF 17-JAN-2001; 2001WO-US01349.  
 XX  
 PR 31-JAN-2000; 2000US-179065P.  
 PR 04-FEB-2000; 2000US-180628P.  
 PR 24-FEB-2000; 2000US-184664P.  
 PR 02-MAR-2000; 2000US-186350P.  
 PR 16-MAR-2000; 2000US-189874P.  
 PR 17-MAR-2000; 2000US-190076P.  
 PR 18-APR-2000; 2000US-198123P.  
 PR 19-MAY-2000; 2000US-205515P.  
 PR 07-JUN-2000; 2000US-209467P.  
 PR 28-JUN-2000; 2000US-214866P.  
 PR 30-JUN-2000; 2000US-215135P.  
 PR 07-JUL-2000; 2000US-216647P.  
 PR 07-JUL-2000; 2000US-216800P.  
 PR 11-JUL-2000; 2000US-217487P.  
 PR 11-JUL-2000; 2000US-217496P.  
 PR 14-JUL-2000; 2000US-218290P.  
 PR 26-JUL-2000; 2000US-220963P.  
 PR 26-JUL-2000; 2000US-220964P.  
 PR 14-AUG-2000; 2000US-224518P.  
 PR 14-AUG-2000; 2000US-224519P.  
 PR 14-AUG-2000; 2000US-225213P.  
 PR 14-AUG-2000; 2000US-225214P.  
 PR 14-AUG-2000; 2000US-225265P.  
 PR 14-AUG-2000; 2000US-225267P.  
 PR 14-AUG-2000; 2000US-225268P.  
 PR 14-AUG-2000; 2000US-225270P.  
 PR 14-AUG-2000; 2000US-225447P.  
 PR 14-AUG-2000; 2000US-225757P.  
 PR 14-AUG-2000; 2000US-225758P.  
 PR 14-AUG-2000; 2000US-225759P.  
 PR 18-AUG-2000; 2000US-226279P.  
 PR 22-AUG-2000; 2000US-226681P.  
 PR 22-AUG-2000; 2000US-226682P.  
 PR 22-AUG-2000; 2000US-227182P.  
 PR 23-AUG-2000; 2000US-227009P.  
 PR 30-AUG-2000; 2000US-228924P.  
 PR 01-SEP-2000; 2000US-229287P.  
 PR 01-SEP-2000; 2000US-229343P.  
 PR 01-SEP-2000; 2000US-229344P.  
 PR 01-SEP-2000; 2000US-229345P.  
 PR 05-SEP-2000; 2000US-229509P.  
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ID AA528950 standard; cDNA; 530 BP.  
XX  
AC AA528950;  
XX  
DT 21-NOV-2001 (first entry)  
XX  
DE cDNA encoding for human uterine motility-association polypeptide #15.  
XX  
KW Human; uterine motility-association disorder; uterus; pregnancy;  
KW labour; menstrual cycle; gene therapy; ss.  
XX  
OS Homo sapiens.  
XX  
WO200155201-A1.  
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PF 17-JAN-2001; 2001WO-US013117.  
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 PR 05-JAN-2001; 2001US-0259678.  
 XX  
 XX (HUMA-) HUMAN GENOME SCI INC.  
 XX  
 XX Rosen CA, Barash SC, Ruben SM;  
 DR WPI; 2001-488777/53.  
 DR P-PSDB; AAU18108.  
 XX  
 XX Isolated polypeptide and nucleic acid molecules for treating,  
 PT preventing and/or prognosing disorders related to uterine motility  
 XX e.g. disorders associated with pregnancy and the menstrual cycle -  
 XX  
 PS Claim 4; SEQ ID No 25; 524pp; English.  
 XX  
 CC The present invention relates to the isolation of novel human  
 CC uterine motility-association polypeptides (AAU18094-AAU18152).  
 CC and cDNA and genomic sequences encoding for these polypeptides.  
 CC The sequences of the invention are useful in the diagnosis,  
 CC treatment, prevention and/or prognosis of diseases associated  
 CC with uterine motility such as pregnancy and labour, and menstrual  
 CC disorders. The polynucleotide sequences of the invention are also  
 CC useful in gene therapy. AAS28936-AAS28994 represent cDNA sequences  
 CC encoding for novel human uterine motility-association polypeptides.  
 CC Note: The sequence data for this patent did not form part of the printed  
 CC specification, but was obtained in electronic format directly from WIPO  
 CC at ftp.wipo.int/pub/published\_pct\_sequences.  
 XX  
 XX Sequence 530 BP; 158 A; 105 C; 95 G; 171 T; 1 other;  
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 DB 122 ATACGGAATCAAGTTAAAAAGAGATGCTTGGCCAAAGCTTTTCTTATAGTATT 181  
 QY 181 ACTGATGATTAATGCTGATACCATTTTGTAGGAAACCTTTTACAGCTTCAGGTA 240  
 DB 182 ACTGATGATTAATGCTGATACCATTTTGTAGGAAATTTCTTACAGCTTCAGGTA 241  
 QY 241 GAAATACCAAGTATACCTCTGGGTAGTGAATGGTTATTCGCAATTAACAGTCT 300  
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 AC  
 XX  
 DT 21-NOV-2001 (first entry)  
 XX  
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 KW cat; dog; chicken; sheep; immunosuppressive; antiarthritic; vasotropic;  
 KW antineumatic; antiproliferative; cytosolic; cardiac; neuroprotective;  
 KW cerebroprotective; noctropic; antibacterial; virucide; fungicide; cancer;  
 KW ophthalmological; vulnerary; gene therapy; autoimmune disease; neoplasm;  
 KW hyperproliferative disorder; nervous system disorder; bacterial infection;  
 KW cerebrovascular disorder; viral infection; ocular disorder; endocrine disorder;  
 KW fungal infection; renal disorder; respiratory disorder;  
 KW gastrointestinal disorder; organ transplantation; food preservative;  
 KW wound healing; skin aging; anti-infertility.  
 KW  
 KW Homo sapiens.  
 OS  
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PR 05-JAN-2001; 2001US-0255678.
PR
PA (HUMA-) HUMAN GENOME SCI INC.
XX
XX
XX
PI Rosen CA, Barash SC, Ruben SM;
XX
XX WPI: 2001-451936/48.
XX P-PSDB; AAU18344.
XX
XX Isolated polypeptide for treating, preventing and/ or prognosing
XX disorders of the endocrine system such as reproductive disorders,
XX endocrine cancers and also for testing and detection e.g. diagnosis -
XX
PS Claim 1; SEQ ID No 73; 604pp; English.
XX
XX Sequences AAS29511-AAS29736 represent cDNA molecules, which encode the
XX endocrine polypeptides of the invention. Endocrine polypeptides and their
XX associated polynucleotides of the invention are useful in the diagnosis,
XX treatment and prevention of various types of disorders in e.g. humans,
XX mice, rabbits, goats, horses, cats, dogs, chickens or sheep. A
XX pathological condition can be determined by determining the presence or
XX absence of a mutation in an endocrine polynucleotide. The treatable
XX disorders include autoimmune diseases such as rheumatoid arthritis,
XX hyperproliferative disorders such as neoplasms of the breast or liver,
XX cardiovascular disorders such as cardiac arrest, cerebrovascular
XX disorders such as cerebral ischaemia, nervous system disorders such as
XX Alzheimer's disease, infections caused by bacteria, viruses and fungi,
XX ocular disorders such as corneal infection, endocrine disorders such as
XX premature labour and infertility, gastrointestinal disorders such as
XX Crohn's disease, renal disorders such as glomerulonephritis and
XX respiratory disorders such as asthma. The polypeptides can also be used
XX to aid wound healing, to prevent skin aging due to sunburn, to maintain
XX organs before transplantation, to regenerate tissues and in chemotaxis.
XX The polypeptides can also be used as a food additive or preservative to
XX increase or decrease storage capabilities.
XX Note: The sequence data for this patent did not form part of the printed
XX specification, but was obtained in electronic format directly from WIPO
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CC	XX	(HUMA-) HUMAN GENOME SCI INC.	
CC	PI	Rosen CA, Barash SC, Ruben SM;	
CC	XX	WPI; 2001-488787/53.	
CC	DR	P-PSDB; AAU18666.	
CC	XX		
CC	PT	New polynucleotides and polypeptides, useful for diagnosing, treating, preventing or prognosing e.g. kidney, cardiovascular, blood, electrolyte imbalance or neoplastic disorders, autoimmune diseases, cancers	
CC	PT	electrolyte imbalance or neoplastic disorders, autoimmune diseases, cancers	
CC	XX		
CC	PS	Claim 1; SEQ ID No 33; 506bp; English.	
CC	XX		
CC	CC	The invention relates to novel nucleic acids and polypeptides useful for diagnosing, treating, preventing and/or prognosing disorders related to these polypeptides. The polynucleotides are especially useful in the diagnosis, prognosis, prevention and/or treatment of diseases which include kidney disorders (e.g. renal failure or nephritis), cardiovascular disorders (e.g. hypertension or myocardial infarction), blood disorders (e.g. anaemia or blood coagulation disorders), electrolyte imbalance disorders (e.g. hyponatraemia or hyperkalaemia), neoplastic disorders (e.g. nephroma or renal cell cancer), autoimmune diseases, cancers, inflammatory diseases, reproductive system	

CC disorders, endocrine disorders, neural activity and neurological  
CC disorders, wound healing and respiratory disorders. AAS30165-AAS30251  
CC represent the novel human renal and cardiovascular-associated nucleic  
CC acid sequences of the invention. Note: The sequence data for this patent  
CC did not form part of the printed specification, but was obtained in  
CC electronic format directly from WIGO at:  
CC [http://wigo.int/pub/published\\_pct\\_sequences](http://wigo.int/pub/published_pct_sequences).

530 BP; 158 A; 105 C; 95 G; 171 T; 1 other;

Query Match	92.6%;	Score 438.8;	DB 22;	Length 530;
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Best Local Similarity 96.6%; Pred. No. 3.5e-109;  
Matches 48; Conservative 1; Mismatches 13; Indels 2; Gaps 1;

**Oy**

1 GCCCAGATTATTCAGTGGCAATTTCTGTGTAATAATTGGCCGCAATTAATCATACATA 60  
**Db**

2 GCCCAGATTATTCAGTGGCAATTTCTGTGTAATAATTGGCCGCAATTAATCATACATA 61  

Oy 61 GTTTTTCCTATGGAAGCATGTTTTAAAGTGTCATCAAGTGCCATAACAGCAACTGAA 120  
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Db 62 GTTTTTCCTATGGAAGCATGTTTTAAAGTGTCATCAAGTGCCATAACAGCAACTGAA 121

QY	121	ATACGGAATCAAGTTAAAAAGAGATATCCTTGCCAAAGTTTTTCTTTATAGATT	180
Db	122	ATACGGAATCAAGTTAAAAAGAGATATCCTTGCCAAAGTTTTTCTTTATAGATT	181

QY 181 ACTGATGCATTATGCTGGATACCCAATTTTGTAGCGAAACCTCTTCACCTTGAGSTA 240  
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Db 182 ACTGATGCATTATGCTGGATGCCCAATTTTGTAGCGAAATTTCTTCACCTTGAGSTA 241

OY 241 GAAATACAGTAGTACCCTTTGGGTAGTGATTGTTATTCGCCAATTACAGTCT 300  
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Db 242 GAATACCGTAGTACCACTTTGGTAGTGAATTTATTCGCCCATTAACAGTCT 301  
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QY 301 TTGAACCAATTCTTACTCTGACACAGACCATTTAAAGAAATGATTCATCGGTT 360  
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Db 302 TTGACCCCAATTCTATACCTGACACAGACCATTTAAAGAAATGATTCATCGGTT 361  
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Dy 361 TGGCATACTACAGACAAGAATTCATTGGA CAGCAAAAGGTATCAGAAAACATATGCTC 420  
||| : |||  
Db 362 TTGCATAACTACAGACAAGAATTCATTGGA CAGCAAAAGGTATCAGAAAACATATGCTC 419

Qy 421 CATCATTCCTGGGGGAAATGTGGCCACTGCAGAGATGCCACCTGAGTTAA 474

RESULT 14  
AAS34845

ID	AAS34845	standard; cDNA; 530 bp.
XX		
AC	AAS34845;	
XY		

DT	04-DEC-2001	(first entry)
XX	CDNA encoding novel human neoplastic disease associated polypeptide #79	
DE		
VV		

KW Human; neoplastic disease associated polypeptide; cancer; gene therapy,  
KW hyperproliferative disorder; neural disorder; immune system disorder;  
KW muscular disorder; reproductive disorder; gastrointestinal disorder;

KW neuroprotective; cytostatic; anti inflammatory; vasotropic; ss.  
XX  
OS Homo sapiens.  
...

PN	W0200155163-A1.
XX	
PD	02-AUG-2001.

PF 17-JAN-2001; 2001WO-US01358.

PR	31-JAN-2000; 2000US-0179065.
PR	04-FEB-2000; 2000US-0180628.





XX Claim 4; SEQ ID No 89; 687bp; English.  
PS The present invention relates to the isolation of novel human neoplastic  
XX disease associated polypeptides (AAU21568-AAU21851), and cDNA and DNA  
CC sequences encoding for these polypeptides. The sequences of the  
CC invention are useful in the diagnosis, treatment, prevention and/or  
CC prognosis of disorders involving neoplastic disease such as  
CC hyperproliferative disorders (e.g. leukemia, bone cancer, bladder  
CC cancer, brain stem glioma, adult liver cancer, childhood cerebellar  
CC astrocytoma, or Hodgkin's lymphoma). The sequences of the invention may  
CC also be useful for treating other disorders such as neural disorders,  
CC immune system disorders, muscular disorders, reproductive disorders,  
CC gastrointestinal disorders, pulmonary disorders, cardiovascular disorders  
CC and renal disorders. The polynucleotide sequences of the invention are  
CC also useful in gene therapy. AA534767-AA535050 represent cDNA sequences  
CC encoding for the novel human neoplastic disease associated polypeptides  
CC of the invention.  
CC Note: The sequence data for this patent did not form part of the printed  
CC specification, but was obtained in electronic format directly from WIPO  
CC at ftp.wipo.int/pub/published\_pct\_sequences.  
SQ Sequence 530 BP; 158 A; 105 C; 95 G; 171 T; 1 other;  
Query Match 92.6%; Score 438.8; DB 22; Length 530;  
Best Local Similarity 96.6%; Pred. No. 3.5e-109;  
Matches 458; Conservative 1; Mismatches 13; Indels 2; Gaps 1;  
QY 1 GCCCGATTATTCAGTGGCAATTTTCTTGATTAATTTGGCCGATTTATCATCATTA 60  
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QY 181 ACTGATCATATGCTGGATACCATTTTGTAGCAAACTCTTTCACGCTTCAGGTA 240  
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QY 241 GAAATACCAAGTACCATTAACCTCTTGGTAGTGTATTTGTCATTAACAGTGT 300  
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QY 301 TTGAACCAATTCCTATATCTCTGACCAAGACCATTTAAAGAAATGATTCATCGGTTT 360  
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QY 361 TGGCATTAATCAAGCAAAAGAAATCTATGAGACGAAAGGATTCGAAACATATGCTC 420  
Db 362 TGGCATTAATCAAGCAAAAGAAATCTATGAGACGCAAGAG--TCGAAACCAATATGCTC 419  
QY 421 CATCATTCATCTGGGGGAAATGTGGCACTGCAGAGATGCACATGAGTTAA 474  
Db 420 CATCATTCATCTGGGGTGAATGTGGCACTGCAGAGAGATGCCACGAGTTAA 473  
RESULT 15  
ABK43875  
ID ABK43875 standard; cDNA; 530 BP.  
XX  
AC ABK43875;  
XX  
DT 05-JUN-2002 (first entry)  
XX  
DE DNA encoding novel central nervous system protein #455.  
XX  
KW Central nervous system; CNS; autoimmune disease; rheumatoid arthritis;  
hyperproliferative disorder; neoplasm; cardiovascular disorder;

KW cardiac arrest; cerebrovascular disorder; ischaemia; angiogenesis;  
KW nervous system disorder; Alzheimer's disease; AIDS; ocular disorder;  
KW acquired immunodeficiency virus; dysphagia; gastrointestinal disorder;  
KW adenocarcinoma; reproductive system disorder; testicular feminisation;  
KW endocrine disorder; diabetes; cancer; leukemia; neovascularisation;  
KW respiratory disorder; renal disorder; kidney failure; blood disorder;  
KW myocardial infarction; wound healing; cell proliferation; skin aging;  
KW food additive; food preservative; gene therapy; gene; ss.  
XX  
OS Homo sapiens.  
XX  
XX MO200155318-A2.  
XX  
XX 02-AUG-2001.  
XX  
XX 17-JAN-2001; 2001WO-US01332.  
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PR 24-FEB-2000; 2000US-0184664.  
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PR 17-MAR-2000; 2000US-0190076.  
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PR 19-MAY-2000; 2000US-0205515.  
PR 07-JUN-2000; 2000US-0209467.  
PR 28-JUN-2000; 2000US-0214886.  
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 PR 17-NOV-2000; 2000US-0249265.  
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 PR 01-DEC-2000; 2000US-0250150.  
 PR 01-DEC-2000; 2000US-0250391.  
 PR 03-DEC-2000; 2000US-0251030.  
 PR 05-DEC-2000; 2000US-0251988.  
 PR 05-DEC-2000; 2000US-0256719.  
 PR 06-DEC-2000; 2000US-0251479.

PR 08-DEC-2000; 2000US-0251856.  
 PR 08-DEC-2000; 2000US-0251868.  
 PR 08-DEC-2000; 2000US-0251869.  
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 PR 08-DEC-2000; 2000US-0251989.  
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 PR 11-DEC-2000; 2000US-0254097.  
 PR 05-JAN-2001; 2001US-0259678.  
 XX  
 PA (HUMA-) HUMAN GENOME SCI INC.  
 XX  
 PI Rosen CA, Barash SC, Ruben SM;  
 XX  
 DR WPI; 2001-581633/65.  
 XX P-PSDB; AAU87545.  
 PT New isolated nucleic acid encoding a protein for diagnosing,  
 PT preventing, treating or ameliorating medical conditions and used as  
 PT food additives or preservatives -  
 XX  
 XX  
 PS Claim 1; SEQ ID No 465; 837bp; English.  
 XX  
 CC The invention describes an isolated nucleic acid molecule (I) encoding a  
 CC novel central nervous system protein. (I) and polypeptides (III) encoded  
 CC by (I), are used to treat a medical conditions and in diagnosis of a  
 CC pathological condition. Disorders which are diagnosed or treated include  
 CC autoimmune diseases e.g. rheumatoid arthritis, hyperproliferative  
 CC disorders e.g. neoplasms of the breast or liver, cardiovascular disorders  
 CC e.g. cardiac arrest, cerebrovascular disorders e.g. cerebral ischaemia,  
 CC amyotrophic lateral sclerosis, infections caused by bacteria, viruses  
 CC e.g. Acquired immunodeficiency virus (AIDS) and fungi, ocular disorders  
 CC e.g. corneal infection, gastrointestinal disorders e.g. dysphagia,  
 CC adenocarcinomas and irritable bowel syndrome, reproductive system  
 CC disorders e.g. testicular feminisation, endocrine disorders e.g. diabetes  
 CC and pituitary dwarfism, cancers and disorders at the cellular level e.g.  
 CC leukaemia, disorders involving neovascularisation e.g. malignancies,  
 CC respiratory disorders e.g. nonallergic rhinitis, renal disorders e.g.  
 CC acute kidney failure and blood related disorders e.g. myocardial  
 CC infarction. The polypeptides can also be used to aid wound healing and  
 CC epithelial cell proliferation, to prevent skin aging due to sunburn, to  
 CC maintain organs before transplantation, for supporting cell culture of  
 CC primary tissues, to regenerate tissues and in chemotaxis. The  
 CC polypeptides can also be used as a food additive or preservative to  
 CC increase or decrease storage capabilities, fat content, lipid, protein,  
 CC  
 CC  
 Query Match 92.6%; Score 438.8; DB 23; Length 530;  
 Best Local Similarity 96.8%; Pred. No. 3,5e-109;  
 Matches 458; Conservative 1; Mismatches 13; Indels 2; Gaps 1;  
 QY 1 GCCGAGATTATTCAGTGCAGATTTTCTGTATTAATTTGGCCGCAATTATCATATA 60  
 DB 2 GCCGAGATTATTCAGTGCAGATTTTCTGTATTAATTTGGCCGCAATTATCATATA 61  
 QY 61 GTTTTTCCTATGAGACATGTTTATAGTTCATCAAGGCCATACACCACTGAA 120  
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 QY 121 ATACGATCAAGTTAAAGAGATGATCCTTGCAAAAGTTTCTCTTATAGTATT 180  
 DB 122 ATACGATCAAGTTAAAGAGATGATCCTTGCAAAAGTTTCTCTTATAGTATT 181  
 QY 181 ACTGATGATTATGCTGATACCAATTTTGTAGCAAACTCTTCTACGCTTACAGTA 240  
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QY 361 TGGATTAATACAGACAAAGAAATCTATGACAGCAAGTATCAGAAAATATGCTC 420  
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 Job time : 231 secs



GenCore version 5.1.3  
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OM nucleic - nucleic search, using sw model

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Title: US-10-049-568-1

Perfect score: 474  
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Scoring table: IDENTITY\_NUC  
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Searched: 16154066 seqs, 8097743376 residues

Minimum DB seq length: 0  
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Listing first 45 summaries

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14: gb\_est5:\*  
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18: em\_gas\_hum:\*  
19: em\_gas\_inv:\*  
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26: em\_gas\_pro:\*  
27: em\_gas\_rtd:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

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2	136.4	28.8	744	10	BQ304121 F130F05.x
3	98.4	20.8	235	10	AM436170 MAR
4	87.6	18.5	197	12	BF942735 EST-CD15N
5	69.4	14.6	286	9	AI375172 fc10b12.x
6	50.6	10.7	456	12	BF021857 uys5h08.y

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9	42.6	9.0	572	17	AQ697633	AQ697633 HS_5525_B
10	42.4	8.9	1101	17	CNS0167X	AL107199 Drosophila
11	42.2	8.9	896	17	CNS07DBB	AL440253 T7 end of
12	41.4	8.7	1101	17	CNS0145U	AL103740 Drosophila
13	41	8.6	1101	17	CNS0039G	AL063921 Drosophila
14	40	8.4	553	17	AQ75843	AQ77843 HS_2151_B
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16	39.8	8.4	833	17	CNS042W5	AL272030 Tetradon
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18	39.4	8.3	797	17	CNS003F8	AL064034 Drosophila
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25	39	8.2	686	17	BM575483	BM575483 BCGEM92TF
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27	38.8	8.2	574	14	BQ388649	BQ388649 NISC_mq03
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#### ALIGNMENTS

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EST.  
SOURCE  
ORGANISM  
human.  
Homo sapiens  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Primates; Catarrhini; Hominiidae; Homo.  
REFERENCE  
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TITLE  
NIH-MGC <http://mgc.nci.nih.gov/>.  
AUTHORS  
National Institutes of Health, Mammalian Gene Collection (MGC)  
JOURNAL  
Unpublished (1999)  
COMMENT  
Contact: Robert Strausberg, Ph.D.  
Email: [cgabs-remail.nih.gov](mailto:cgabs-remail.nih.gov)  
Tissue Procurement: ATCC/DC/DMP  
CDNA Library Preparation: Life Technologies, Inc.  
CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)  
DNA Sequencing by: Agencourt Bioscience Corporation  
Clone distribution: MGC clone distribution information can be  
found through the I.M.A.G.E. Consortium/LLNL at:  
<http://image.llnl.gov>  
Plate: L1AM13304 row: m column: 12  
High quality sequence start: 87  
High quality sequence stop: 603.  
Location/Qualifiers

#### FEATURES

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source
1.841
/organism="Homo sapiens"
/db xref="taxon:9606"
/clone="IMAGE:6051251"
/clone_1b="NIH MGC 72"
/issue_type="melanotic melanoma"
/lab_host="DH10B (phage-resistant)"
/notes="Organ: Skin; Vector: pCMV-SPORT6; Site_1: Nct1; Site_2: Sali; Cloned unidirectionally. Primer: Oligo dT. Average insert size 2 kb. Library constructed by Life Technologies."
Technology: "

BASE COUNT      240 a 160 c 170 g 269 t 2 others
ORIGIN
Query Match      67.6%; Score 320.4; DB 14; Length 841;
Best Local Similarity 95.4%; Pred. No. 1.5e-70;
Matches 330; Conservative 0; Mismatches 16; Indels 0; Gaps 0;

QY 1 GCCCAGATTATTCAGCGCAATTTCTGTGATTAATTGGCCGATTATCATCAT 60
305 GCCCAGATTATTCAGCGCAATTTCTGTGATTAATTGGCCGATTATCATCAT 364

QY 61 GTTTTTCCTATGAGACATGTTTATAGTTCATCAAGTCCATTAACAGACTGAA 120
365 GTTTTTCCTATGAGACATGTTTATAGTTCATCAAGTCCATTAACAGACTGAA 424

QY 121 ATACGAATCAAGTTAAAGAGATGATCTTGCACAAAGCTTTTCTTATAGTATT 180
425 ATACGAATCAAGTTAAAGAGATGATCTTGCACAAAGCTTTTCTTATAGTATT 484

QY 181 ACAGATGATTAATGCTGGATACCATTTTGTAGCGAAACCTGTTACAGCTTCAGGTA 240
485 ACAGATGATTAATGCTGGATACCATTTTGTAGCGAAATTTCTTACAGCTTCAGGTA 544

QY 241 GAATACCAAGTACCATTAACCTCTTGGGATGATGATTTGATTTCTGACATTAACAGTCT 300
545 GAATACCAAGTACCATTAACCTCTTGGGATGATGATTTTATTTCTGACATTAACAGTCT 604

QY 301 TTGAACCAATTCCTTACTCTGACCAACAGACATTTTAAAGAA 346
605 TTGAACCAATTCCTTACTCTGACCAACAGACATTTTAAAGAA 650

Db

RESULT 2
BG304121/c      744 bp      mRNA      linear      EST 23-FEB-2001
LOCUS           BG304121.1
DEFINITION      BG304121.1 Sugano Kawakami zebrafish DRA Danio rerio cDNA clone
315552 3' similar to TR:Q9VBP0 Q9VBP0 CG5042 PROTEIN.; mRNA
Sequence.
Accession       BG304121
Version         BG304121.1 GI:13101648
KEYWORDS        zebrafish.
SOURCE          Danio rerio
ORGANISM        Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Actinopterygii; Neopterygii; Teleostei; Ostariophysi; Cypriniformes
; Cyprinidae; Danio.
1 (bases 1 to 744)
Sugano,S., Kawakami,K., Johnson,S., Li,F., Marra,M., Eddy,S.,
Hillier,L., Clifton,S., Allen,M., Gibbons,M., Jost,S., Kucaba,T.,
Martin,J., Page,D., Stepien,M., Underwood,K., Theising,B., Riltter
,E., Bowers,Y., Wylie,T., Waterston,R. and Wilson,R.
Masnu Zebrafish EST Project 1999
Unpublished (1999)
Contact: S.L. Johnson
Washington University School of Medicine
4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108, USA
Tel: 314 286 1800
Fax: 314 286 1810
Email: est@watson.wustl.edu
Library constructed by Dr. Sumio Sugano and Dr. Koichi Kawakami DNA
Sequencing by: Washington University Genome Sequencing Center Clone
distribution information can be found through the I.M.A.G.E.

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FEATURES
source
Consortium/LLNL, send email to: info@image.llnl.gov
Seq primer: T7 from Gibco
High quality sequence stop: 510.
Location/Qualifiers
1.744
/organism="Danio rerio"
/strain="AB"
/db xref="taxon:7955"
/clone="3815552"
/clone_1b="Sugano Kawakami zebrafish DRA"
/sex="mixed (one male and one female, including
unfertilized eggs)"
/dev stage="adult"
/lab_host="DH10B (phage resistant)"
/notes="Vector: pME18S-Fl3; Site_1: DraIII (CACTGCTG);
Site_2: DraIII (CAGCATGTG); 18t strand cDNA was primed
with an oligo(dT) primer [ATGTGGCTTTTCTTTTCTTTT];
double-stranded cDNA was ligated to a DraIII adaptor
[GTGTGGCTTCTG], digested and cloned into distinct DraIII
sites of the pME18S-Fl3 vector (5' site CAGCTGTG, 3' site
CAGCATGTG). XhoI should be used to isolate the cDNA
insert. Size selection was performed to exclude fragments
<1.5kb. Library constructed by Dr. Sumio Sugano
(University of Tokyo Institute of Medical Science) and
kindly donated by Dr. Koichi Kawakami. Custom primers for
sequencing: 5' end primer CTTCTGCTTAAAGCTGCG and 3' end
primer CGACTCGACGTCGACAC."

BASE COUNT      204 a 158 c 186 g 196 t
ORIGIN
Query Match      28.8%; Score 136.4; DB 12; Length 744;
Best Local Similarity 62.1%; Pred. No. 3.9e-24;
Matches 215; Conservative 0; Mismatches 131; Indels 0; Gaps 0;

QY 25 TTTCTGTGATTAATTGTCGCCGCAATTATTCATCATGTTTCTTCTATGACAGATGTT 84
744 TTTCTGTGATTAATTGTCGCCGCTTCTTCTCATCATGCGGTCTGCTCAGATGTT 685

QY 85 TATATGTTTCAATCAAGTCCATTAACAGCACTGAAATAGGAATCAAGTTAAAGAA 144
684 TATATGTTTCAATCAAGTCCATTAACAGCACTGAAATAGGAATCAAGTTAAAGAA 625

QY 145 ATGATCTTGGCCAAAGCTTTTCTTATAGATTTTCTGATGATTAATGCTGATTAACCC 204
624 ATGATCTTGGCCAAAGCTTTTCTTATAGATTTTCTGATGATTTTCTGATGATTTTCTG 565

QY 205 ATTTTGTAGCGAAACCTCTTCTACTGCTTCAAGTGAATTAACAGATCAATACCTCT 264
564 ATTTTGTAGCGAAACCTCTCTCTTAATGAGAGGTGAGATTAACAGATCAATACCTCT 505

QY 265 TGGGTAGATGATGTTATTTGCGCATTAACAGTGTCTGAACCCATCTCTATATCTGTG 324
504 TGGGTAGATGATGTTATTTGCGCATTAACAGTGTCTGAACCCATCTCTATATCTGTG 445

QY 325 ACCCAAGACCATTTAAAGAAATGATTCATGCGTTTGGCATTA 370
444 ACCCAAGACCATTTAAAGAAATGATTCATGCGTTTGGCATTA 399

Db

RESULT 3
AM436170      235 bp      mRNA      linear      EST 09-JUL-2000
LOCUS           AM436170
DEFINITION      AM436170 MARC 2P1G Sus scrofa cDNA 5', mRNA sequence.
Accession       AM436170
Version         AM436170.1 GI:6971476
KEYWORDS        pig.
SOURCE          Sus scrofa
ORGANISM        Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Cetartiodactyla; Suidae; Suidae; Sus.
1 (bases 1 to 235)
Mammalia; Eutheria; Cetartiodactyla; Suidae; Suidae; Sus.
Fahnenkrug,S.C., Freking,B.A., Rohrer,G.A., Smith,T.P.L., Casas,E.,
Stone,R.T., Heaton,M.P., Grobbee,W.M., Bennett,G.A., Laegreid,W.W.

```

TITLE	and Keele, J.W.	
JOURNAL	Design and use of two pooled tissue normalized cDNA libraries for EST discovery in swine	
COMMENT	Unpublished (2000) Contact: Smith IPL USDA, ARS, US Meat Animal Research Center PO Box 166, Clay Center, NE 68933-0166, USA Tel: 402 762 4366 Fax: 402 762 4390 Email: smith@mail.marc.usda.gov Single pass sequencing. Bases called and trimmed with phred v0.980904.e. Vector identified by cross_match with the -minscore 20 and -minmatch 12 options. PCR Primers FORWARD: AGAAGACAGCTATGACCAT BACKWARD: GTTTCCAGTCACGACG Plate: 34 row: F column: 22 Seq primer: ATTTAGTGACACTATAG. Location/Qualifiers 1. 235 /organism="Sus scrofa" /db_xref="taxon:9823" /clone_lib="MARC 2Ptc" /tissue_type="pooled" /lab_host="DH10B" /note="Vector: pCMV SPOR6; Site 1: NotI, Site 2: SalI; library made from pooled tissue from testis, ovary, endometrium, hypothalamus, pituitary, and placenta."	
FEATURES		
source		
BASE COUNT	49 a 64 c 45 g 77 t	
ORIGIN		
Query Match	20.8%; Score 98.4; DB 10; Length 235;	
Best Local Similarity	66.5%; Pred. No. 1.6e-14;	
Matches 141; Conservative	0; Mismatches 71; Indels 0; Gaps 0;	
Oy	160 CGTTTTCCTTATAGTATTACTGATGATTAAGCTGGATACCCATTTTGTAGCGAA 219	
Db	5 CTTTTTTTTTATAGGGTCTCTGATGCCATCTGCGATTCCTGGATTGCTATTA 64	
Oy	220 CCTCTTACAGCTCTTCAAGTAGAAATATACAGGTACCATTAACCTTGGGTAGTATTGGT 279	
Db	65 ATTCTCTCCCTCTTCCGGGTGGAATATACAGGCTCAGTCATCTTCTGGGGGTGCTATTTT 124	
Oy	280 TATTCGCATTAAGAGCTTTGAACCAATTCCTATCTGTGACCAACAAGACATTT 339	
Db	125 TTCTTCGCGTGAACAGTCCCTGAACCAATCCTTTACACTGCACCAACGCTTTTC 184	
Oy	340 AAAGAAATGATTCAATCGGTTTGGCATTACTA 371	
Db	185 AAAGACAGCTGGAACAGCTGCTGCACAAACA 216	
RESULT 4		
BF942735	197 bp mRNA linear EST 15-SEP-2001	
LOCUS	BF942735	
DEFINITION	EST-CD15N-040 human CD15+ myeloid progenitor cells cDNA Library	
ACCESSION	BF942735	
VERSION	BF942735.1	
KEYWORDS	GI:15624134	
SOURCE	EST.	
ORGANISM	human.	
REFERENCE	Homo sapiens	
AUTHORS	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.	
TITLE	1 (bases 1 to 197)	
JOURNAL	Chen, J., Lee, S., Zhou, G., Rowley, J.D. and Wang, S.M.	
COMMENT	A high-throughput GIGI procedure for converting large number of SAGE tag sequences into 3' ESTs Unpublished (2001) Contact: Wang SM Hem/Onc University of Chicago Medical Center 5641 S. Maryland Ave., MC2115, Chicago, IL 60637, USA	

FEATURES	source
Seq primer: M13 Forward	
Location/Qualifiers	
1..197	
/organism="Homo sapiens"	
/db_xref="taxon:9606"	
/clone_lib="human CD15+ myeloid progenitor cells cDNA library"	
/tissue_type="bone marrow"	
/cell_type="CD15+ myeloid progenitor cells"	
/note="Organ: thymoid; Vector: pAMP10; mRNA made from thymoid carcinoma, cDNA made by oligo-dr priming. Non-directionally cloned into UDG sites. Size-selected on agarose gel, average insert size 500 bp. Primary library. cDNA library preparation: David B. Krizman, Ph.D. REFERENCE: Krizman et al. (1996) Cancer Research 56:5380-5383."	
BASE COUNT	44 a 38 c 37 g 78 t
ORIGIN	
Query Match	18.5%; Score 87.6; DB 12; Length 197;
Best Local Similarity	66.3%; Pred. No. 8.5e-12;
Matches 126; Conservative	0; Mismatches 64; Indels 0; Gaps 0;
QY 62	TTTTTCTATGGAAGCATGTTTATAGTGTTCATCAAGTCCATTAACAGCACTGAAA 121
DB 8	TTTTTCCCTATATACATAGTTCCTGTCATTCATAAAAACCGCTTGACAGACACAGAA 67
QY 122	TACGGAATCAAGTTAAATAAGATGATCCCTTGCCAAACGTTTTTCTTTATAGTATTTA 181
DB 68	TAAAGAAATGTGTTTGAAGAAGAGGCGCTGTGCAAAATCGTTTCTTTTATAGTGTCT 127
QY 182	CTGATGATTAATGCTGATACCCATTTTGTGTAGCGAAACCTTTTCACTGCTCAGTAG 241
DB 128	CTGATGCATCTGCGGATTCCTGTGATTTGTGATTAATAATCCTTCCCTCTTCGGGGTGG 187
QY 242	AAATACCCAG 251
DB 188	AAATACCATG 197
RESULT 5	
AI375172/c	
LOCUS	AI375172 286 bp mRNA linear EST 18-MAR-1999
DEFINITION	tc10b12.x1 Soares NHMNPu_S1 Homo sapiens cDNA clone IMAGE:2063423
ACCESSION	AI375172
VERSION	AI375172.1 GI:4175162
KEYWORDS	EST.
SOURCE	human.
ORGANISM	Homo sapiens
REFERENCE	Eukaryotic; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
AUTHORS	1 (bases 1 to 286)
TITLE	NCI-CGAP http://www.ncbi.nlm.nih.gov/cgi/gap.
JOURNAL	National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
COMMENT	Tumor Gene Index
COMMENT	Unpublished (1997)
COMMENT	Contact: Robert Strausberg, Ph.D.
COMMENT	Email: cgaps-rc@mail.nih.gov
COMMENT	This clone is available royalty-free through LIND; contact the
COMMENT	IMAGE Consortium (info@image.lnl.gov) for further information.
COMMENT	Insert Length: 651 Std. Error: 0.00
COMMENT	Seq primer: -40UP From Gibco
COMMENT	High quality sequence stop: 276.
COMMENT	Location/Qualifiers



source  
1.286  
/organism="Homo sapiens"  
/db\_xref="taxon:9606"  
/clone="IMAGE:2063423"  
/clone\_1ib="Soares NhMpu S1"  
/rname\_type="Pooled human melanocyte, fetal heart, and pregnant uterus"  
/lab\_host="DH10B"  
/note="Organ: mixed (see below); Vector: pTT73D-Pac (pharmacia) with a modified polylinker; Site\_1: Not 1; Site\_2: Eco RI; Equal amounts of plasmid DNA from three normalized libraries (melanocyte 2NBH, pregnant uterus NBHPU, and fetal heart NBH19W) were mixed, and as circles were made in vitro. Following HAP purification, this DNA was used as tracer in a subtractive hybridization reaction. The driver was PCR-amplified cDNAs from pools of 5,000 clones made from the same 3 libraries. The pools consisted of I.M.A.G.E. clones 260232-265223, 340488-345479, and 484488-489479."

COUNT 81 a 56 c 56 g 93 t  
IN

Query Match 14.6%; Score 69.4; DB 9; Length 286;  
Best Local Similarity 98.6%; Pred. No. 3.3e-07;  
Matches 70; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 404 TCAGAAAACATATGCTCATTCATTCATCTGCGGGAATGTGGCCACTGCGAGAGATGCC 463  
DB 277 TCAGAAAACATATGCTCATTCATTCATCTGCGGGAATGTGGCCACTGCGAGAGATGCC 218  
QY 464 ACCGAGTTAA 474  
DB 217 ACCGAGTTAA 207

RESULT 6  
BF021857 456 bp mRNA linear EST 29-DEC-2000  
LOCUS BF021857  
DEFINITION UY58H08.y1 McCarrey Eddy round spermatid Mus musculus cDNA clone IMAGE:3663807 5' similar to TR:Q9VYG0 Q9VYG0 CG4187 PROTEIN.;; mRNA sequence.  
ACCESSION BF021857  
VERSION BF021857.1 GI:10753189  
KEYWORDS EST.  
SOURCE house mouse.  
ORGANISM Mus musculus  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.  
1 (bases 1 to 456)  
Marrin, M., Hillier, L., Kucaba, T., Martin, J., Beck, C., Wylie, T., Person Underwood, K., Stepien, M., Theising, B., Allen, M., Bowers, Y., Person B., Swaller, T., Gibbons, M., Pape, D., Harvey, N., Schur, R., Ritter, E., Kohn, S., Shin, T., Jackson, Y., Cardenas, M., McCann, R., Materon, R., and Wilson, R.  
The WashU-NCI Mouse EST Project 1999  
Unpublished (1999)  
Contact: Marra M/WashU-NCI Mouse EST Project 1999  
Washington University School of Medicine  
444 Forest Park Parkway, Box 8501, St. Louis, MO 63108, USA  
Tel: 314 286 1800  
Fax: 314 286 1810  
Email: mouseest@wustl.edu  
This clone is available royalty-free through LBNL; contact the IMAGE Consortium (info@image.lbnl.gov) for further information.  
MGI:1424575  
Seq primer: Primer name ambiguous  
High quality sequence stop: 386.  
Location/Qualifiers  
1..456  
/organism="Mus musculus"  
/strain="CD-1"  
/db\_xref="taxon:10090"  
/clone="IMAGE:3663807"

FEATURES  
SOURCE

/clone\_1ib="McCarrey Eddy round spermatid"  
/sex="male"  
/rname\_type="round spermatids, pooled from multiple mice"  
/dev\_stage="60 day"  
/lab\_host="DH10B (phage-resistant)"  
/note="Organ: testis; Vector: pBluescript SK+ (Stratagene); Site\_1: XhoI; Site\_2: EcoRI; cDNA oligo dt-primed [5'-(GA)10-ACTAGCTCGAGTTTCTTTT-3'] and directionally cloned using 5' linkers 5'-ATTGCGCAGAG-3' and 5'-CTGTGCGC-3'. Size selection of >400bp material gives average insert size ranging from 1-2 kb. Library was mass excised (from lambda-UniZAP-XR) and resulting single-stranded phagemids were prepped and transformed into DH10B. Library contains 98.5% recombinants. References: J. Androl. 20:635-639 and Gene 25:263-269. Library constructed and donated by J. McCarrey, Ph.D. (Southwest Foundation for Biomedical Research, Dept. of Genetics); excision done by E.M. Eddy, Ph.D. (National Institutes of Health, National Institute of Environmental Health Sciences). Original lambda-based library is available through ATCC catalog #63423."

BASE COUNT 120 a 110 c 111 g 115 t  
ORIGIN

Query Match 10.7%; Score 50.6; DB 12; Length 456;  
Best Local Similarity 59.3%; Pred. No. 0.018;  
Matches 86; Conservative 0; Mismatches 59; Indels 0; Gaps 0;

QY 224 TTCACTGCTTCAAGTAGAATPACAGATACATTCCTTTGGTGTGATGTTATT 283  
DB 11 TTGCACGAGTGGGACAGGAGGAATGAGCAATCCATCTCGATGATGGTTTTTCC 70  
QY 264 CTGCATTAAACAGGCTTTGAACCAATTCCTTACTCTGACGACCAACATTTAAAG 343  
DB 71 TTCCGGTAAACAGGCGCTTAAACCCATCTCTACACTTGACACATCTTTTAAAG 130  
QY 344 AATGATTCATCGCTTTTGGCATTA 368  
DB 131 ACAAATTGAACAGTTGCTGCACAA 155

RESULT 7  
BB632910 574 bp mRNA linear EST 26-OCT-2001  
LOCUS BB632910  
DEFINITION BB632910 RIKEN full-length enriched, adult male hypothalamus Mus musculus cDNA clone A230094D06 5', mRNA sequence.  
ACCESSION BB632910  
VERSION BB632910.1 GI:16469432  
KEYWORDS EST.  
SOURCE house mouse.  
ORGANISM Mus musculus  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.  
1 (bases 1 to 574)  
Arkawa, T., Carninci, P., Fukuda, S., Furuno, M., Hanagaki, T., Haru, A., Hiramoto, K., Hori, F., Ishii, Y., Ito, M., Kawai, J., Kono, H., Kouda, M., Koya, S., Matsuyama, T., Miyazaki, A., Nomura, K., Ohno, M., Okazaki, Y., Okido, T., Saito, R., Sakai, C., Sakai, K., Sano, H., Sasaki, D., Shibata, K., Shinagawa, A., Shiraki, T., Sogabe, Y., Suzuki, H., Tagami, M., Tagawa, A., Takehashi, F., Takeda, Y., Tanaka, T., Toya, T., Muramatsu, M., and Hayashizaki, Y.  
RIKEN Mouse ESTs (Arakawa, T., et al. 2001)  
Unpublished (2001)  
Contact: Yoshihide Hayashizaki  
Laboratory for Genome Exploration Research Group, RIKEN Genomic Sciences Center (GSC), Yokohama Institute  
The Institute of Physical and Chemical Research (RIKEN)  
1-7-22 Suehiro-cho, Tsurumi-ku, Yokohama, Kanagawa 230-0045, Japan  
Tel: 81-45-503-9222  
Fax: 81-45-503-9216  
Email: genome-res@sc.riken.go.jp,  
URL: http://genome.gsc.riken.go.jp/  
Carninci, P., Shibata, Y., Hayatsu, N., Sugahara, Y., Shibata, K., Itoh

M., Kono, H., Okazaki, Y., Muramatsu, M. and Hayashizaki, Y.  
 Normalization and subtraction of cap-trapper-selected cDNAs to  
 prepare full-length cDNA libraries for rapid discovery of new  
 genes. *Genome Res.* 10 (10), 1617-1630 (2000)  
 Wagi, K., Fujiwaka, S., Inoue, K., Togawa, Y., Izawa, M., Ohara, E.,  
 Watanabe, M., Yoneda, Y., Ishikawa, T., Osawa, K., Tanaka, T., Matsumura  
 S., Kawai, J., Okazaki, Y., Muramatsu, M., Inoue, Y., Kira, A. and  
 Hayashizaki, Y.  
 RIKEN integrated sequence analysis (RISA) system-384-format  
 sequencing pipeline with 384 multicapillary sequencer. *Genome Res.*  
 10 (11), 1757-1771 (2000)  
 Kono, H., Fukunishi, Y., Shibata, K., Itoh, M., Carninci, P., Sugahara  
 Y. and Hayashizaki, Y.  
 Computer-based methods for the mouse full-length cDNA  
 encyclopedia: real-time sequence clustering for construction of a  
 nonredundant cDNA library. *Genome Res.* 11 (2), 281-289 (2001)  
 Kondo, S., Shingawa, A., Saito, T., Kiyosawa, H., Yamana, I., Aizawa  
 K., Fukuda, S., Hara, A., Itoh, M., Kawai, J., Shibata, K. and  
 Hayashizaki, Y.  
 Computational Analysis of Full-length Mouse cDNAs Compared with  
 Human Genome Sequences. *Mamm. Genome* 12, 673-677 (2001)  
 Please visit our web site (<http://genome.gsc.riken.go.jp>) for  
 further details.  
 e mouse tissues.

## FEATURES

## SOURCE

Location/Qualifiers

```
1. 574
/organism="Mus musculus"
/db_xref="taxon:10090"
/clone="A230094D06"
/clone_lib="RIKEN full-length enriched, adult male
hypothalamus"
/sex="male"
/class_type="hypothalamus"
/dev_stage="adult"
/lab_host="DH10B"
/Note="Site 1: SalI; Site 2: BamHI; cDNA library was
prepared and sequenced in Mouse Genome Encyclopedia
Project of Genome Exploration Research Group in Riken
Genomic Sciences Center and Genome Science Laboratory in
RIKEN. Division of Experimental Animal Research in Riken
contributed to prepare mouse tissues. 1st strand cDNA was
primed with a primer [5'
GAGAGAGAGATCCAGAGCTCTTTTCTTTTCTTTT 3'], cDNA was
prepared by using crehase thermo-activated reverse
transcriptase and subsequently enriched for full-length by
cap-trapper. cDNA went through one round of normalization
to Rot = 20.0 and subtraction to Rot = 459.0. Second
strand cDNA was prepared with the primer adapter of
sequence [5' GAGAGAGATCTCCAGATTAATTAATTCCTCCCCCCCC
3']. cDNA was cleaved with XhoI and BamHI. Vector: a
modified phuescript KS(+) after bulk excision from Lambda
FLC 1."
```

BASE COUNT 153 a 139 c 141 g 141 t  
 ORIGIN

Query Match 10.5%; Score 49.6; DB 10; Length 574;  
 Best Local Similarity 63.3%; Pred. No. 0.032;  
 Matches 76; Conservative 0; Mismatches 44; Indels 0; Gaps 0;

QY 249 AGGTACATTAACCTCTGGTAGTATGTTATTCGCATTAACAGTCTTGAACCC 308  
 DB 66 AGGACATCACTCTCGATCGTGTGTTTTCCTTCGCGTAACAGCCCTTAACCC 125  
 QY 309 AATTCTTATACCTGACCAAGACCATTTAAAGAAATGATTCATCGCTTTGGCATTA 368  
 DB 126 CATCTCTACACTGACGACTCTCTTTTAAAGACCAAGTTGAACAGTTGTGCACAA 185

## RESULT 8

## LOCUS

H17265 450 bp mRNA linear EST 29-JUN-1995  
 YM37D10.r1 Soares infant brain INTB Homo sapiens cDNA clone  
 IMAGE:50195 5', mRNA sequence.

ACCESSION H17265  
 VERSION H17265.1 GI:883505  
 KEYWORDS EST.  
 SOURCE human  
 ORGANISM Homo sapiens  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.  
 REFERENCE 1 (bases 1 to 450)  
 AUTHORS Hillier, L., Clark, N., Dubuque, T., Elliston, K., Hawkins, M., Holman  
 M., Hultman, M., Kucaba, T., Le, M., Lennon, G., Marra, M., Parsons, J.,  
 Rifkin, L., Rohlfing, T., Soares, M., Tan, F., Trevisakis, E., Waterston  
 R., Williamson, A., Woldmann, P. and Wilson, R.  
 The WashU-Merck EST Project  
 Unpublished (1995)  
 CONTACT Wilson RK  
 Washington University School of Medicine  
 444 Forest Park Parkway, Box 8501, St. Louis, MO 63108  
 Tel: 314 286 1800  
 Fax: 314 286 1810  
 Email: [esf@watson.wustl.edu](mailto:esf@watson.wustl.edu)  
 Insert Size: 1886  
 High quality sequence stops: 396  
 Source: IMAGE Consortium, LNL  
 This clone is available royalty-free through LNL; contact the  
 IMAGE Consortium ([info@image.lnl.gov](mailto:info@image.lnl.gov)) for further information.  
 Insert Length: 1886 Std Error: 0.00  
 Seq primer: M13RP1  
 High quality sequence stop: 396.

## FEATURES

## SOURCE

Location/Qualifiers

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1. 450
/organism="Homo sapiens"
/db_xref="GDB:423005"
/db_xref="taxon:9606"
/clone="IMAGE:50195"
/clone_lib="Soares infant brain INTB"
/sex="female"
/dev_stage="73 days post natal"
/lab_host="DH10B (ampicillin resistant)"
/Note="Organ: whole brain; Vector: lacmid BA; Site 1: Not
I; Site 2: Hind III; 1st strand cDNA was primed with a Not
I - oligo(dT) primer [5'
AAGTGAAGATTCGCGCGCCAGAGATTTTCTTTTCTTTT 3'];
double-stranded cDNA was ligated to Hind III adaptors
(Pharmacia), digested with Not I and directionally cloned
into the Not I and Hind III sites of the lacmid BA vector.
Library went through one round of normalization. Library
constructed by Bento Soares and M. Fatima Bonaldo."
```

BASE COUNT 127 a 79 c 79 g 164 t  
 ORIGIN

Query Match 9.3%; Score 44; DB 14; Length 450;  
 Best Local Similarity 48.4%; Pred. No. 0.83;  
 Matches 122; Conservative 0; Mismatches 130; Indels 0; Gaps 0;

QY 8 TTTATTCAGTGGCAATTTTCTTGATTAATTTGGCGCATTTATCATCAAGTTT 67  
 DB 105 TTTGTTTGGGGTGTTCATATTTGATTTTTCCTCGATCATCTCTAAATGTT 164  
 QY 68 CCTATGAAGCATGTTTATAGTGTTCATCAAGTGCATACGCACTGAATACGGA 127  
 DB 165 CGGTGACATCTTGTGTTCTTGGTTAAGATCAAAAGAAAACAAATTCACGA 224  
 QY 128 ATCAAGTTAAAAAGATGATCTTCGCCAAGCTTTTCTTATATGATTTTACGATG 187  
 DB 225 GGGCAATCTAAGGGAAGAAATCTACACACTTACTTACTTGTATTTCTCATTT 284  
 QY 188 CATTAAGCTGATACCATTTTGTAGCGAAACCTCTTACAGCTTCAGATGAAATAC 247  
 DB 285 TTGGAAAAAGAAATCTTAATGTGCTACTAGAAATCTTCTTCAAGTTTAAAGATTTG 344  
 QY 248 CAGGTACCATTA 259  
 DB 345 GATAAACCTGA 356

RESULT 9  
LOCUS A0697633  
DEFINITION HS\_5525\_B2\_H10 T7A RPCI-11 Human Male BAC Library Homo sapiens  
ACCESSION A0697633  
VERSION A0697633.1 GI:5387881  
KEYWORDS GSS.  
SOURCE human.  
ORGANISM Homo sapiens  
REFERENCE Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.  
AUTHORS Mahairas,G.G., Wallace,J.C., Smith,K., Swartzell,S., Holzman,T.,  
Keller,A., Shaker,R., Furlong,J., Young,J., Zhao,S., Adams,M.D. and  
Hood,L.  
TITLE Sequence-tagged connectors: A sequence approach to mapping and  
scanning the human genome  
JOURNAL Proc. Natl. Acad. Sci. U.S.A. 96 (17), 9739-9744 (1999)  
COMMENT Contact: Mahairas GG, Wallace JC, Hood L  
High Throughput Sequencing Center  
University of Washington  
401 Queen Anne Avenue North, Seattle, WA 98109, USA  
Tel: (206) 616-3618  
Fax: (206) 616-3887  
Email: jwallace@u.washington.edu  
Clones are derived from the human BAC library RPCI-11. For BAC  
library availability, please contact Pieter de Jong  
(pieter@edj.med.buffalo.edu). Clones may be purchased from  
BACPAC Resources (http://bacpac.med.buffalo.edu/ordering\_bac.htm)  
or from Research Genetics (info@resgen.com). BAC end Web Server:  
http://www.hnsc.washington.edu  
Plate: 1101 row: P column: 20  
Seq primer: T7  
Class: BAC ends  
High quality sequence stop: 572.  
Location/Qualifiers  
1..572  
/organism="Homo sapiens"  
/db\_xref="taxon:9606"  
/clone="Plate=1101 Col=20 Row=P"  
/clone\_lib="RPCI-11 Human Male BAC Library"  
/sex="male"  
/note="Vector: pBAC3.6; Site 1: EcoRI; Site 2: EcoRI;  
Male blood DNA was isolated from one randomly chosen donor  
and partially digested with a combination of EcoRI and  
EcoRI Methylase. Size selected DNA was cloned into the  
pBAC3.6 vector at EcoRI sites"  
BASE COUNT 188 a 111 c 84 g 178 t 11 others  
ORIGIN  
Query Match 9.0%; Score 42.6; DB 17; Length 572;  
Best Local Similarity 56.9%; Pred. No. 1.8;  
Matches 78; Conservative 0; Mismatches 59; Indels 0; Gaps 0;  
Oy 308 CAATCTCTAATCTGACCAACAACATTAAGAAATGATTCATCGGTTTGGCATA 367  
Db 43 CATTAGAGATATCCCACTAACAATCTGTAAACAATTTCTTAACAATGTTGCATA 102  
Oy 368 ACTACAGCAAAAGAAATCTATGACAGCAAGATATCAGAAACATATGCTCCATCATT 427  
Db 103 TCAAGGTCTGATATATCTAGTGTGGCAAGGTGTGAGAGACAGAGCTCTCAATC 162  
Oy 428 CATCTGGGGGGAATGT 444  
Db 163 CTGCTGAGAGATATTT 179

LOCUS CNS016TX 1101 bp DNA linear GSS 26-JUL-1999  
DEFINITION Drosophila melanogaster genome survey sequence SP6 end of BAC  
BACN16A06 of DrosBAC library from Drosophila melanogaster (fruit  
fly) genomic survey sequence.  
ACCESSION AL107199  
VERSION AL107199.1 GI:5626132  
KEYWORDS GSS.  
SOURCE Drosophila melanogaster.  
ORGANISM Drosophila melanogaster.  
REFERENCE Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota;  
Neoptera; Endopterygota; Diptera; Brachyera; Muscomorpha;  
Ephydroidea; Drosophilidae; Drosophila.  
AUTHORS 1 (bases 1 to 1101)  
TITLE Genoscope.  
JOURNAL Direct Submission  
Submitted (23-JUL-1999) Genoscope - Centre National de Sequencage :  
BP 191 91006 EVRY cedex - FRANCE (E-mail : seqref@genoscope.cns.fr  
- Web : www.genoscope.cns.fr)  
COMMENT Determination of this BAC-end sequence was carried out as part of a  
collaboration with the European Drosophila Genome Project (EDGP) -  
http://www.edgp.ebi.ac.uk -. This Drosophila melanogaster BAC  
library (Dros BAC) was made by Alain Billaud at CEPH (Centre  
d'Etude du Polymorphisme Humain) with funding provided by a MRC  
project grant. The DNA was prepared from embryos by Alain Bucheton  
and Genevieve Payan. It has been constructed in the vector  
pBelBAC11.  
FEATURES  
source  
1..1101  
/organism="Drosophila melanogaster"  
/db\_xref="taxon:7227"  
/clone="BACN16A06"  
/clone\_lib="DrosBAC"  
/plasmid="pBelBAC11"  
/note="end : Spe"  
BASE COUNT 225 a 178 c 59 g 330 t 309 others  
ORIGIN  
Query Match 8.9%; Score 42.4; DB 17; Length 1101;  
Best Local Similarity 29.5%; Pred. No. 2;  
Matches 112; Conservative 81; Mismatches 184; Indels 3; Gaps 1;  
Oy 8 TTATATGAGGCAATTTTCTTGATTAATTTGGCCGCAATTCATCATGATTTT 67  
Db 973 TDMBSSTAABBSMHTMTTBSCTWTCTTTTNTTNTTNTTNTTNTTNTTNTTNTT 914  
Oy 68 CCTATGAGAGATGTTTATGATGTTTATCAAGTCCATACAGCAATGAAATACGA 127  
Db 913 BBAATGATATVSSWKTADWMTGSVAAAASVAAACSMGSTAAATBSSSSW 854  
Oy 128 ATCAAGTTAAAAAGAGATGATCTTCCCAAGCTTTTCTTTATGATTTACTGATG 187  
Db 853 TTCCACMAAMATAMMMVSTTATABAAACSCAMTGTCTTTTWTWTATACCTTTT 794  
Oy 188 CATATAGCTGAT---ACCAATTTTGTAGCGAAACCTCTTCACGCTTCAGTAGAAA 244  
Db 793 WAWWAGTHTTTCASYSATATTTTCAACVGAATHAATCMCGASSCYTTAASY 734  
Oy 245 TACAGGATACATTAACCTCTTGGTAGTGTGATTTCTGCAATTAACAGTCTTGA 304  
Db 733 SAABAASAAVYAAACGCSYWMCHTTTTTTTATATAMCSAAAGAKTTATWTTTATB 674  
Oy 305 ACCCAATTTCTATATCTGACCAACAAGACATTTAAAGAAATGATTCATCGGTTTGGC 364  
Db 673 ASTTTTWTWMAAATTANANNNNNNNNNNGNAAAGTAGNAGNGAAATNTNTGTTNANG 614  
Oy 365 ATAACTACAGCAAGAAA 384  
Db 613 ATKBAAGAAAAAANANCA 594

RESULT 10  
CNS016TX/c  
LOCUS CNS07DBB 896 bp DNA linear GSS 08-JUL-2001

Oy	202	CCCATTTTGTAGCACAACCTTCCTGCTTGAGGTAAATAATACCAGTACCATTAACC	261
Db	280	YCGTATATTTTGAATGAATATASACTACACAGCYTGTGTTTTTAAATGGTTATTATAT	339
Oy	262	TCTTGGATGTATATGGTATATCTGCCATTAACAGTCGTTTGAACCAATTCTCTAATCT	321
Db	340	TCTTAGGTATGGTTCTTCATGCTTTATATTCCTTTTAACTGACATATVTVVVV	399
Oy	322	CTGACCAACAAGACCATTTTAAGAATATGATTCGCTTTGGCATATCACACAAA	381
Db	400	YGCCCTAAMASACVATVTCYTGTATAGCTGTATHTTTMAACAATAAATATWCATTA	459
Oy	382	AATCTATGACACGCAAGAGTATCAGAAAAATATGCTGCATCATCTC	428
Db	460	AAATGTATATATATAAAMAAAAAACCTGTATATATATAMMCCATCAATC	506
RESULT 12			
CNS0145U		1101 bp	DNA linear GSS 26-JUL-1999
LOCUS		CNS0145U	
DEFINITION		Drosophila melanogaster genome survey sequence T7 end of BAC	
ACCESSION		BACN1016 of DrosBAC library from Drosophila melanogaster (fruit fly), genomic survey sequence.	
VERSION		AL103740	
KEYWORDS		GI:5615351	
SOURCE		GSS.	
ORGANISM		Drosophila melanogaster.	
REFERENCE		Drosophila melanogaster.	
AUTHORS		Bukacynski, Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota;	
TITLE		Neoptera; Endopterygota; Diptera; Brachycera; Muscomorpha;	
JOURNAL		Ephydroidea; Drosophilidae; Drosophila.	
COMMENT		1 (bases 1 to 1101)	
		Genoscope.	
		Direct Submission	
		Submitted (23-JUL-1999) Genoscope - Centre National de Sequencage	
		BP 191 91006 EVRI cedex - FRANCE (E-mail : seqref@genoscope.cns.fr	
		- Web : www.genoscope.cns.fr)	
		Determination of this BAC-end sequence was carried out as part of a	
		collaboration with the European Drosophila Genome Project (EDGP) -	
		http://www.edgp.ebi.ac.uk -. This Drosophila melanogaster BAC	
		library (Dros BAC) was made by Alain Billand at CEPH (Centre	
		d'Etude du Polymorphisme Humain) with funding provided by a MRC	
		project grant. The DNA was prepared from embryos by Alain Bucheton	
		and Genevieve Payan. It has been constructed in the vector	
		pBelOBAC11.	
FEATURES		Location/Qualifiers	
source		1..1101	
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		/db_xref="taxon:7227"	
		/clone="BACN1016"	
		/clone_1ib="DrosBAC"	
		/plasmid="pBelOBAC11"	
		/note="end : 17"	
BASE COUNT		336 a 123 c 4 g 358 t 280 others	
QUERY			
Best Local Similarity		8.7%; Score 41.4; DB 17; Length 1101;	
Matches		96; Conservative 9; Mismatches 147; Indels 0; Gaps 0;	
Oy	8	TTTATTCAGGCGAATTTTCTCTGGATTTAATTTGGCGCATATCATATAGTATTTT	67
Db	119	TTTTTTTTTTTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTT	178
Oy	68	CCATATGACATGTTTATATAGTGTATCAACAGTGCATPACAGCAATGAAATACGA	127
Db	179	ATTTTATTTTATATTTTATTTTATTTTNNNNNNNNAAAAAANNNNNANNNNNAAA	238
Oy	128	ATCAGTTAAAGAAGATGATCCTGCGCAACGTTTTCTTATATGTATTACGAG	187
Db	239	TTATATATATAAATAATTAAMAWATTATATATATTTATTTATTTATTTATTTT	298

OY	188	CATATGCTCGTAACCATTTTGTGGCAAAACCCTTCCTCAGTGGAATTAC	247
Dd	299	TTTTTTTTTTTTTTTTWATTNNNANNNANNNNNNNNNNNNANNNNAAAA AAAAAAAAA	358
OY	248	CAGGTACCAATA	259
Dd	359	NANNAAAAA	370
RESULT 13			
CONS00396			
LOCUS			
DEFINITION			
ACCESSION			
VERSION			
KEYWORDS			
SOURCE			
ORGANISM			
REFERENCE			
AUTHORS			
TITLE			
JOURNAL			
COMMENT			
<p>Direct Submission Submitted (02-JUN-1999) Genoscope - Centre National de Sequencage : BP 191 91006 EVRY cedex - FRANCE (E-mail : sequef@genoscope.cns.fr)</p> <p>- Web : www.genoscope.cns.fr) Determination of this BAC-end sequence was carried out as part of a collaboration with the Berkeley Drosophila Genome Project (BDGP). The BDGP is constructing a physical map of the Drosophila melanogaster genome using these BACs. For further information please see http://www.fruitfly.org The BDGP Drosophila melanogaster BAC library was prepared by Kazutoyo Georgawa and Marion Mammober in Peter de Jong's laboratory in the Department of Cancer Genetics at the Roswell Park Cancer Institute in Buffalo, NY. The library is named RPc1-98 and was constructed by partial EcoRI digestion of Drosophila DNA provided by the BDGP from the isogenic strain Y2; cn bw sp, the same strain used for the BDGP's P1 and EST libraries. A more detailed description of the library and how to order individual BAC clones, the entire library, or filters for hybridization from the BACPAC Resource Center can be found at http://bdgpc.med.buffalo.edu/drosophila_bac.htm.</p>			
FEATURES			
Source			
<p>/organism="Drosophila melanogaster" /db_xref="taxon:7227" /clone="BACR08K10" /clone_lib="RPc1-98" /note=End : "ETI3"</p>			
BASE COUNT	201 a	64 c	131 g    202 t    503 others
ORIGIN			
Query Match	8.6%; Score 41; DB 17; Length 1101;		
Best Local Similarity	15.9%; Pred. No. 4.6;		
Matches	61; Conservative	170; Mismatches	152; Indels 0; Gaps 0
OY	50	TTATCATCATAGTTTTTCCSTAGAACAAGCTGTTATATAGTGCATGAAGGCCATA	109
Dd	539	TAAATTTWWTWWTTTTUUTWAAMATRAAACMAAYUHNTUUUYUHHYTUTTUMNHNTMY	588
OY	110	CAGCAACTGAAATCGCAATCAAGTAAAAAAGAGATGATCTCGSCCAAAGSTTTTTCT	169
Dd	599	THADHHTTNWNHTNLTMMNMHMHTMNMHNMTTUADAUUUYUCMUYNMHNDHAN	688
OY	170	TTATAGATTAATTGACTGATATAGTGSGAHACCAATTTGTGASGCAACSTTTTCA	229
Dd	659	AHAAMAHTTTTGNTHAANAHTAUUUUWCAMMCSCGTCHNCUUYUHNHNTHTHW	718
OY	230	TGCTTAGAGTGAAGTAATCSAGGTACATACACSTTGGSATGATGATGATGATGATG	289
Dd	719	XAHUYYUUYIMAIYUWMICSTAUTNNNNNNNNNNKAINTTUAHAMMMNNHDHDAADAW	778

Oy	290	TTCACAGGTGTTGAACAATCTCCTAATCTGCAGCACAAACCATTTAAGAATAA	349
Db	779	AANAATTHHHHTTTHHNTTHMYHHYMHYCCMCYCHSMHYHHAUYATCSMTWHNNMMWTTH	838
Oy	350	TTCATCGTGTTTGCGCAATACACACAAAAGAAATGTATGACACGAAAGGTATCAGAA	409
Db	839	WYHHTMHHHTTTTHMAWMHTTMCMWWMAATTWATACHMACMTMWHNNHNMHNHMAC	898
Oy	410	ACCATAGGCCATCATCATCATCT	432
Db	899	AANHHTMCMCHHMHACTCHHHT	921
RESULT 14			
LOCUS	AQ775843	553 bp	DNA linear GSS 29-JUL-1999
DEFINITION	HS_2151_B2_B04_T7C CIT Approved Human Genomic Sperm Library D Homo sapiens genomic clone Plate=2151 Col=8 Row=D, DNA sequence.		
ACCESSION	AQ775843		
VERSION	AQ775843.1	GI:5655571	
KEYWORDS	GSS.		
SOURCE	human.		
ORGANISM	Homo sapiens		
REFERENCE	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.		
AUTHORS	1 (bases 1 to 553) Mahairas,G., Wallace,J.C., Smith,K., Swartzell,S., Holzman,T., Keller,A., Shaker,R., Furlong,J., Young,J., Zhao,S., Adams,M.D. and Hood,L.		
TITLE	Sequence-tagged connectors: A sequence approach to mapping and scanning the human genome		
JOURNAL MEDLINE	Proc. Natl. Acad. Sci. U.S.A. 96 (17), 9739-9744 (1999)		
COMMENT	Contact: Mahairas GG, Wallace JC, Hood L High Throughput Sequencing Center University of Washington 401 Queen Anne Avenue North, Seattle, WA 98109, USA Tel: (206) 616-3618 Fax: (206) 616-3887 Email: jwallace@u.washington.edu Clones may be purchased from Research Genetics (info@resgen.com). BAC end Web Server: http://www.htsc.washington.edu Plate: 2151 row: D column: 8 Seq primer: T7 Class: BAC ends High quality sequence stop: 553. Location/Qualifiers 1..553 /organism="Homo sapiens" /db_xref="taxon:9606" /clone="Plate=2151 Col=8 Row=D" /clone_lib="CIT Approved Human Genomic Sperm Library D" /sex="male" /note="Organ: sperm; Vector: pBelobaC11; BAC Clones in B-Col1 DH10B"		
BASE COUNT	230 a	230 c	89 g     136 t     8 others
ORIGIN			
Query Match	8.4%	Score 407	DB 177 Length 553;
Best Local Similarity	55.9%	Pred. No. 8.4;	
Matches	76;	Conservative 0;	Mismatches 60; Indels 0; Gaps 0;
Oy	308	CAAATCTCTATCTGACACACACCATTTAAGAAGATGATTCATCGATTGGSCATA	367
Db	184	CAACTTATATAGAAAAAACCTAATATCTAATTAATAAAGGGCAAAACATCTGAGTAGA	243
Oy	368	ACTACACACAAAGAAATCTATGACACGAAAGGTATCAGAAAAATATGCTTCATCAT	427
Db	244	CATTCTTCAAAGAAATATATGACACACAAAGATATACAAAAGATGCTCAACATCAT	303
Oy	428	CATCTGGGGGGAATG	443

Db 304 GATCATAGAGAAATG 319

RESULT 15  
 BFL178875/c 195 bp mRNA linear EST 31-OCT-2000  
 LOCUS 601807574F1 NCI\_CGAP\_Mam5 Mus musculus cDNA clone IMAGE:4038114 5',  
 DEFINITION mRNA sequence.  
 ACCESSION BFL178875  
 VERSION BFL178875  
 KEYWORDS BFL178875.1 GI:11057017  
 SOURCE EST.  
 ORGANISM house mouse.  
 Mus musculus  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.

REFERENCE  
 AUTHORS NIH-MGC  
 TITLE NIH-MGC http://mgc.nci.nih.gov/  
 JOURNAL National Institutes of Health, Mammalian Gene Collection (MGC)  
 Unpublished (1999)  
 Contact: Robert Strusberg, Ph.D.  
 Email: cgapbs-remail.nih.gov  
 Tissue Procurement: Lothar Hennighausen Ph.D., Robin Humphreys  
 cDNA Library Preparation: Life Technologies, Inc.  
 DNA Sequencing by: Incyte Genomics, Inc.  
 Clone distribution: MGC clone distribution information can be  
 found through the I.M.A.G.E. Consortium/LINL at:  
 http://image.lnl.gov  
 Plate: LHM9316 row: d column: 19  
 High quality sequence stop: 193.  
 Location/Qualifiers

FEATURES

source  
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 /tissue\_type="tumor, gross tissue"  
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 /lab\_host="DH10B"  
 /note="Organ: mammary; Vector: pCMV-SPORT6; Site:1; Salt;  
 Site:2; Not1; Cloned unidirectionally. Primer: Oligo dt.  
 library constructed by Life Technologies. Investigators  
 providing samples: Lothar Hennighausen/Robin Humphreys,  
 NIH"

BASE COUNT 108 a 17 c 20 g 50 t  
 ORIGIN

Every Match 8.4%; Score 39.8; DB 12; Length 195;  
 Best Local Similarity 52.0%; Pred. No. 9.8;  
 Matches 89; Conservative 0; Mismatches 82; Indels 0; Gaps 0;

QY 23 TTTTCTGTTATTAATGGCGCATTTATCATCATGTTTCTATGAGACATGT 82  
 Db 187 TTTTCTGTTATTAATGGCGCATTTATCATCATGTTTCTATGAGACATGT 128  
 QY 83 TTTATAGTGTTCATCAAGTGCATTAACAGCACTGAATACGAATCAAGTTAAAAAG 142  
 Db 127 GCTTAAGATTAATTTTATGAATGATGAAAGAAATAGTTCTCAAGAAAAAAAT 68  
 QY 143 AGATGATCCCTGCAACGTTTTTTCTTATAGTATTTAATGATGATGATAT 193  
 Db 67 AGAAATCCATTTTTCACAACTATTTGATATCATTAATGACTTCATTTT 17

Search completed: February 3, 2003, 14:18:56  
 Job time : 1947 secs



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•  
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Db 229 AATTGCCATAAAAGAGATGAAAAAGTATTAGTATAAAACTTTTCATCGATA 170  
Qy 158 AACGTTTTCTTTATAGATTATGATGATCATTTAT 193  
Db 169 AAGAGTTTTTATGATATTCTTACTTATCTAT 134

RESULT 2  
US-08-853-659A-6/c

Sequence 6, Application US/08853659A

Patent No. 5925522

GENERAL INFORMATION:

APPLICANT: Wong, K.K.; Saffier, J.D.

TITLE OF INVENTION: A Salmonella Sequence, Methods Of Detection

TITLE OF INVENTION: Of A

TITLE OF INVENTION: Salmonella Sequence, And Methods Of Detection Of Salmonella

NUMBER OF SEQUENCES: 67

CORRESPONDENCE ADDRESS:

ADDRESSEE: Paul W. Zimmerman

ADDRESSEE: Intellectual Property Services

ADDRESSEE: Battelle Memorial Institute

ADDRESSEE: PNNL P.O. Box 999

STREET: Washington Way

CITY: Richland

STATE: Washington

COUNTRY: U.S.A.

ZIP: 99352

COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette 3.50", 1.44 Mb storage

COMPUTER: IBM PC/XT/AT

OPERATING SYSTEM: MS-DOS

SOFTWARE: Word Processor (WordPerfect 5.1)

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/853,659A

FILING DATE: Unknown

CLASSIFICATION: 435

PRIOR APPLICATION DATA:

APPLICATION NUMBER: none

FILING DATE: n/a

INFORMATION FOR SEQ ID NO: 6:

SEQUENCE CHARACTERISTICS:

LENGTH: 8967 bases

TYPE: nucleotide

STRANDEDNESS: double stranded

TOPOLOGY: linear

FEATURE:

OTHER INFORMATION: SEQ ID NO:6 corresponds to

OTHER INFORMATION: nucleotides 15735 through 24701 of SEQ ID NO:2

DB-853-659A-6

Query Match 8.1%; Score 38.4; DB 2; Length 8967;

Best Local Similarity 62.5%; Pred. No. 0.37; Mismatches 36; Indels 0; Gaps 0;

Matches 60; Conservative 0; Mismatches 36; Indels 0; Gaps 0;

Qy 98 AATGCGCATACAGCACTGCAATACGAAATCAAGTAAAAAGAGATGATCTTGCCA 157  
Db 7124 AATGCGCATACAGCACTGCAATACGAAATCAAGTAAAAAGAGATGATCTTGCCA 157  
Qy 158 AACGTTTTCTTTATAGATTATGATGATGATCATTTAT 193  
Db 7064 AAGAGTTTTTATGATATTCTTACTTATCTAT 7029

RESULT 3  
US-08-853-659A-9

Sequence 9, Application US/08853659A

Patent No. 5925522

GENERAL INFORMATION:

APPLICANT: Wong, K.K.; Saffier, J.D.

TITLE OF INVENTION: A Salmonella Sequence, Methods Of Detection

TITLE OF INVENTION: Of A

TITLE OF INVENTION: Salmonella Sequence, And Methods Of Detection Of Salmonella

NUMBER OF SEQUENCES: 67

CORRESPONDENCE ADDRESS:

ADDRESSEE: Paul W. Zimmerman

ADDRESSEE: Intellectual Property Services

ADDRESSEE: Battelle Memorial Institute

ADDRESSEE: PNNL P.O. Box 999

STREET: Washington Way

CITY: Richland

STATE: Washington

COUNTRY: U.S.A.

ZIP: 99352

COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette 3.50", 1.44 Mb storage

COMPUTER: IBM PC/XT/AT

OPERATING SYSTEM: MS-DOS

SOFTWARE: Word Processor (WordPerfect 5.1)

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/853,659A

FILING DATE: Unknown

CLASSIFICATION: 435

PRIOR APPLICATION DATA:

APPLICATION NUMBER: none

FILING DATE: n/a

INFORMATION FOR SEQ ID NO: 9:

SEQUENCE CHARACTERISTICS:

LENGTH: 8967 bases

TYPE: nucleotide

STRANDEDNESS: double stranded

TOPOLOGY: linear

US-08-853-659A-9

Query Match 8.1%; Score 38.4; DB 2; Length 8967;  
Best Local Similarity 62.5%; Pred. No. 0.37; Mismatches 36; Indels 0; Gaps 0;  
Matches 60; Conservative 0; Mismatches 36; Indels 0; Gaps 0;

Qy 98 AATGCGCATACAGCACTGCAATACGAAATCAAGTAAAAAGAGATGATCTTGCCA 157  
Db 1844 AATGCGCATACAGCACTGCAATACGAAATCAAGTAAAAAGAGATGATCTTGCCA 157  
Qy 158 AACGTTTTCTTTATAGATTATGATGATGATCATTTAT 193  
Db 1904 AAGAGTTTTTATGATATTCTTACTTATCTAT 1939

RESULT 4  
US-08-853-659A-64/c

Sequence 64, Application US/08853659A

Patent No. 5925522

GENERAL INFORMATION:

APPLICANT: Wong, K.K.; Saffier, J.D.

TITLE OF INVENTION: A Salmonella Sequence, Methods Of Detection

TITLE OF INVENTION: Of A

TITLE OF INVENTION: Salmonella Sequence, And Methods Of Detection Of Salmonella

NUMBER OF SEQUENCES: 67

CORRESPONDENCE ADDRESS:

ADDRESSEE: Paul W. Zimmerman

ADDRESSEE: Intellectual Property Services

ADDRESSEE: Battelle Memorial Institute

ADDRESSEE: PNNL P.O. Box 999

STREET: Washington Way

CITY: Richland

STATE: Washington

COUNTRY: U.S.A.

ZIP: 99352

COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette 3.50", 1.44 Mb storage

COMPUTER: IBM PC/XT/AT

OPERATING SYSTEM: MS-DOS

SOFTWARE: Word Processor (WordPerfect 5.1)

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/853,659A

FILING DATE: Unknown

CLASSIFICATION: 435

PRIOR APPLICATION DATA:



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STATE: Washington
COUNTRY: U.S.A.
ZIP: 99352
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette 3.50", 1.44 Mb storage
COMPUTER: IBM PC/XT/AT
OPERATING SYSTEM: MS-DOS
SOFTWARE: Word Processor (WordPerfect 5.1)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/853,659A
FILING DATE: Unknown
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: none
FILING DATE: n/a
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 24701 bases
TYPE: nucleotide
STRANDEDNESS: double stranded
TOPOLOGY: linear
US-08-853-659A-3
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Query Match      8.1%; Score 38.4; DB 2; Length 24701;
Best Local Similarity 62.5%; Pred. No. 0.48;
Matches 60; Conservative 0; Mismatches 36; Indels 0; Gaps 0;
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QY 98 AAATGCCATAACGACGAACTGAATACGAAATCAAGTAAAGATATGCTTCCCA 157
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 1844 AAATGCCATAAAAGAGATGAAAAAGATTTAGTATAAATCTTGTATCGATA 1903
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QY 158 AACGTTTCTTATAGTATTTACTGATGATCAT 193
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DB 1904 AAGAGTTTATGATATTTTACTCTTATACAT 1939
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RESULT 8
US-08-853-659A-60/c
; Sequence 60, Application US/08853659A
; Patent No. 5925522
; GENERAL INFORMATION:
; APPLICANT: Wong, K.K.; Saifer, J.D.
; TITLE OF INVENTION: A Salmonella Sequence, Methods Of Detection
; TITLE OF INVENTION: OF A
; TITLE OF INVENTION: Salmonella Sequence, And Methods Of Detection Of Salmonella
; NUMBER OF SEQUENCES: 67
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Paul W. Zimmerman
; ADDRESSEE: Intellectual Property Services
; ADDRESSEE: Battelle Memorial Institute
; ADDRESSEE: PNNL P.O. Box 999
; STREET: Washington Way
; CITY: Richland
; STATE: Washington
; COUNTRY: U.S.A.
; ZIP: 99352
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette 3.50", 1.44 Mb storage
; COMPUTER: IBM PC/XT/AT
; OPERATING SYSTEM: MS-DOS
; SOFTWARE: Word Processor (WordPerfect 5.1)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/853,659A
; FILING DATE: Unknown
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: none
; FILING DATE: n/a
; INFORMATION FOR SEQ ID NO: 60:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 24701 bases
; TYPE: nucleotide
; STRANDEDNESS: single stranded
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TOPOLOGY: linear
US-08-853-659A-60
Query Match      8.1%; Score 38.4; DB 2; Length 24701;
Best Local Similarity 62.5%; Pred. No. 0.48;
Matches 60; Conservative 0; Mismatches 36; Indels 0; Gaps 0;
QY 98 AAATGCCATAACGACGAACTGAATACGAAATCAAGTAAAGATATGCTTCCCA 157
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DB 22858 AAATGCCATAAAAGAGATGAAAAAGATTTAGTATAAATCTTGTATCGATA 22799
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QY 158 AACGTTTCTTATAGTATTTACTGATGATCAT 193
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DB 22798 AAGAGTTTATGATATTTTACTCTTATACAT 22763
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RESULT 9
US-08-853-659A-61
; Sequence 61, Application US/08853659A
; Patent No. 5925522
; GENERAL INFORMATION:
; APPLICANT: Wong, K.K.; Saifer, J.D.
; TITLE OF INVENTION: A Salmonella Sequence, Methods Of Detection
; TITLE OF INVENTION: OF A
; TITLE OF INVENTION: Salmonella Sequence, And Methods Of Detection Of Salmonella
; NUMBER OF SEQUENCES: 67
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Paul W. Zimmerman
; ADDRESSEE: Intellectual Property Services
; ADDRESSEE: Battelle Memorial Institute
; ADDRESSEE: PNNL P.O. Box 999
; STREET: Washington Way
; CITY: Richland
; STATE: Washington
; COUNTRY: U.S.A.
; ZIP: 99352
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette 3.50", 1.44 Mb storage
; COMPUTER: IBM PC/XT/AT
; OPERATING SYSTEM: MS-DOS
; SOFTWARE: Word Processor (WordPerfect 5.1)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/853,659A
; FILING DATE: Unknown
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: none
; FILING DATE: n/a
; INFORMATION FOR SEQ ID NO: 61:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 24701 bases
; TYPE: nucleotide
; STRANDEDNESS: single stranded
; TOPOLOGY: linear
US-08-853-659A-61
Query Match      8.1%; Score 38.4; DB 2; Length 24701;
Best Local Similarity 38.5%; Pred. No. 0.48;
Matches 37; Conservative 23; Mismatches 36; Indels 0; Gaps 0;
QY 98 AAATGCCATAACGACGAACTGAATACGAAATCAAGTAAAGATATGCTTCCCA 157
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DB 1844 AAATGCCATAAAAGAGATGAAAAAGATTTAGTATAAATCTTGTATCGATA 1903
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QY 158 AACGTTTCTTATAGTATTTACTGATGATCAT 193
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 1904 AAGAGUUUUUUGAUAUUUUUUUUAUCUUUUUUAUCUAU 1939
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
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```
RESULT 10
US-08-991-789A-169/c
; Sequence 169, Application US/08991789A
; Patent No. 6225054
```

GENERAL INFORMATION:  
APPLICANT: Frudakis, Tony N.  
Smith, John M.  
Reed, Steven G.  
TITLE OF INVENTION: TREATMENT AND METHODS FOR THE  
NUMBER OF SEQUENCES: 292  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Seed IP Law Group  
STREET: 701 Fifth Avenue, Suite 6300  
CITY: Seattle  
STATE: Washington  
COUNTRY: USA  
ZIP: 98104-7092  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/991,789A  
FILING DATE: 11-Dec-1997  
CLASSIFICATION: <Unknown>  
ATTORNEY/AGENT INFORMATION:  
NAME: Potter, Jane E. R.  
REGISTRATION NUMBER: 33,332  
REFERENCE/DOCKET NUMBER: 210121.419C3  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (206) 622-4900  
TELEFAX: (206) 682-6031  
INFORMATION FOR SEQ ID NO: 169:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 1265 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
SEQUENCE DESCRIPTION: SEQ ID NO: 169:  
US-08-991-789A-169

Query Match 8.0%; Score 37.8; DB 4; Length 1265;  
Best Local Similarity 50.8%; Pred. No. 0.34; Mismatches 0; Gaps 0;  
Matches 90; Conservative 0; Indels 87; Indels 0; Gaps 0;

QY 240 AGAATACCGAGTACCAATCTTGGGATGATTGTTATTCGCAATTAACAGTGC 299  
DB 792 AATTAACAGGCTTCAGTATCTTGGCTTCATATATATTTTCTTTAAGAAAA 733

QY 300 TTGAACCAATCTCTATCTCTGACCAAGACATTTAAGAAATGATTCAGGTT 359  
DB 732 ATATCAACCATGTCATGCACTGTTTTCAAAGCATTTAATAGAGGGTAAACCTT 673

QY 360 TTGGCATTAACAGCAAGAAATCTATGACAGCAAGATGATCAGAAACATAT 416  
DB 672 TGGAAATTATACAGAAAGAAATGATTCATTTCATATAAAATTAATATATAT 616

RESULT 11  
US-09-062-451-169/C  
Sequence 169, Application US/09062451  
Patent No. 6344550  
GENERAL INFORMATION:  
APPLICANT: Frudakis, Tony N.  
Smith, John M.  
Reed, Steven G.  
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE  
NUMBER OF SEQUENCES: 297  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Seed and BERRY LLP  
STREET: 6300 Columbia Center, 701 Fifth Avenue  
CITY: Seattle  
STATE: Washington  
COUNTRY: USA

ZIP: 98104-7092  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/062,451  
FILING DATE: 04-APR-1997  
CLASSIFICATION:  
ATTORNEY/AGENT INFORMATION:  
NAME: Maki, David J.  
REGISTRATION NUMBER: 31,392  
REFERENCE/DOCKET NUMBER: 210121.419C2  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (206) 622-4900  
TELEFAX: (206) 682-6031  
INFORMATION FOR SEQ ID NO: 169:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 1265 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
US-09-062-451-169

Query Match 8.0%; Score 37.8; DB 4; Length 1265;  
Best Local Similarity 50.8%; Pred. No. 0.34; Mismatches 0; Gaps 0;  
Matches 90; Conservative 0; Indels 87; Indels 0; Gaps 0;

QY 240 AGAATACCGAGTACCAATCTTGGGATGATTGTTATTCGCAATTAACAGTGC 299  
DB 792 AATTAACAGGCTTCAGTATCTTGGCTTCATATATATTTTCTTTAAGAAAA 733

QY 300 TTGAACCAATCTCTATCTCTGACCAAGACATTTAAGAAATGATTCAGGTT 359  
DB 732 ATATCAACCATGTCATGCACTGTTTTCAAAGCATTTAATAGAGGGTAAACCTT 673

QY 360 TTGGCATTAACAGCAAGAAATCTATGACAGCAAGATGATCAGAAACATAT 416  
DB 672 TGGAAATTATACAGAAAGAAATGATTCATTTCATATAAAATTAATATATAT 616

RESULT 12  
US-09-598-326-169/C  
Sequence 169, Application US/09598326  
Patent No. 6423496  
GENERAL INFORMATION:  
APPLICANT: Frudakis, Tony N.  
Smith, John M.  
Reed, Steven G.  
TITLE OF INVENTION: TREATMENT AND METHODS FOR THE  
NUMBER OF SEQUENCES: 247  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Seed Intellectual Property Law Group PLLC  
STREET: 701 Fifth Avenue, Suite 6300  
CITY: Seattle  
STATE: Washington  
COUNTRY: USA  
ZIP: 98104-7092  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/598,326  
FILING DATE: 20-Jun-2000  
CLASSIFICATION: <Unknown>  
ATTORNEY/AGENT INFORMATION:  
NAME: Potter, Jane E. R.  
REGISTRATION NUMBER: 33,332  
REFERENCE/DOCKET NUMBER: 210121.419D1

## TELECOMMUNICATION INFORMATION:

TELEPHONE: (206) 622-4900

TELEFAX: (206) 682-6031

INFORMATION FOR SEQ ID NO: 169:

## SEQUENCE CHARACTERISTICS:

LENGTH: 1265 base pairs

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

SEQUENCE DESCRIPTION: SEQ ID NO: 169:

US-09-598-326-169

## Query Match

Best Local Similarity 8.0%; Score 37.8; DB 4; Length 1265;

Matches 90; Conservative 0; Mismatches 87; Indels 0; Gaps 0;

QY 240 AGAAATACAGGATACCTCTGGTAGATGTTATTCGACATTAACAGTGC 299

DB 792 AAATTAACAGGCTTCAATATCTGGCTTCATATATTTCTTTAAAGAAA 733

DB 300 TTGAACCAATCTCTATCTGACCAAGACCAATTAAGAAATGATTCATCGTT 359

DB 732 ATATCAACCATTTGCAATGCACTGTTTTCAAGCATTAAATAGAGGTAACCCCTT 673

QY 360 TTGGCATTAACACAGCAAGAAATCTATGACAGCAAGGATTCAGAAACATAT 416

DB 672 TCGAATTAATACAGAAAGATTCACATTATGCAATAAATTAATTAATAT 616

## RESULT 13

US-09-134-001C-1232/c

Sequence 1232, Application US/09134001C

Patent No. 6380370

GENERAL INFORMATION:

APPLICANT: Lynn Doucette-Stamm et al

TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO STAPHYLOCOCCUS

TITLE OF INVENTION: EPIDERMIDIS FOR DIAGNOSTICS AND THERAPEUTICS

FILE REFERENCE: GTC-007

CURRENT APPLICATION NUMBER: US/09/134,001C

CURRENT FILING DATE: 1998-08-13

PRIOR APPLICATION NUMBER: US 60/064,964

PRIOR FILING DATE: 1997-11-08

PRIOR APPLICATION NUMBER: US 60/055,779

PRIOR FILING DATE: 1997-08-14

NUMBER OF SEQ ID NOS: 5674

SEQ ID NO 1232

LENGTH: 1557

TYPE: DNA

ORGANISM: Staphylococcus epidermidis

FEATURE:

NAME/KEY: unsure

LOCATION: (16)

OTHER INFORMATION: Identity of nucleotide at the above locations are unknown.

US-09-134-001C-1232

## Query Match

Best Local Similarity 8.0%; Score 37.8; DB 4; Length 1557;

Matches 75; Conservative 0; Mismatches 62; Indels 0; Gaps 0;

QY 337 TTTAAGAAATGATTCATCGGTTTGGCATTAACAGCAAGAAATCTATGACAGC 396

DB 1293 TTCAACAGTAATTTACTCTTTGTGGATACACAGCAACAGCTGTATGAAACAG 1234

QY 397 AAAGTATCAGAAACATATGCTTCATTCATCTGGGGGAAATGGCCACTGACG 456

DB 1233 AATATGATTAATCTCAATGTTTCATATTAATTTGTTCCAATGCTGAGCTTCAT 1174

QY 457 AGATGCCACCTGAGTTA 473

DB 1173 ATATGCTGATGAATCA 1157

## RESULT 14

US-08-991-789A-290/c

Sequence 290, Application US/08991789A

Patent No. 6225054

GENERAL INFORMATION:

APPLICANT: Fridakis, Tony N.

Smith, John M.

Reed, Steven G.

TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE

TREATMENT AND DIAGNOSIS OF BREAST CANCER

NUMBER OF SEQUENCES: 292

CORRESPONDENCE ADDRESS:

STREET: 701 Fifth Avenue, Suite 6300

CITY: Seattle

STATE: Washington

COUNTRY: USA

ZIP: 98104-7092

COMPUTER READABLE FORM:

MEDIUM TYPE: floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patent In Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

FILING DATE: 11-Dec-1997

CLASSIFICATION: &lt;Unknown&gt;

ATTORNEY/AGENT INFORMATION:

NAME: Poter, Jane E. R.

REGISTRATION NUMBER: 33,332

REFERENCE/DOCKET NUMBER: 210121.419C3

TELECOMMUNICATION INFORMATION:

TELEPHONE: (206) 622-4900

TELEFAX: (206) 682-6031

INFORMATION FOR SEQ ID NO: 290:

SEQUENCE CHARACTERISTICS:

LENGTH: 1646 base pairs

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

SEQUENCE DESCRIPTION: SEQ ID NO: 290:

US-08-991-789A-290

## Query Match

Best Local Similarity 8.0%; Score 37.8; DB 4; Length 1646;

Matches 90; Conservative 0; Mismatches 87; Indels 0; Gaps 0;

QY 240 AGAATACAGGATACCTCTGGTAGATGTTATTCGACATTAACAGTGC 299

DB 1165 AAATTAACAGGCTTCAATATCTGGCTTCATATTAATTAATTTCTTTAAAGAAA 1106

QY 300 TTGAACCAATCTCTATCTGACCAAGACCAATTAAGAAATGATTCATCGTT 359

DB 1105 ATATCAACCATTTGCAATGCACTGTTTCAAGCATTAAATAGAGGTAACCCCTT 1046

QY 360 TTGGCATTAACACAGCAAGAAATCTATGACAGCAAGGATTCAGAAACATAT 416

DB 1045 TCGAATTAATACAGAAAGATTCATTATGCAATTAATTAATTAATAT 989

## RESULT 15

US-09-062-451-290/c

Sequence 290, Application US/09062451

Patent No. 6344550

GENERAL INFORMATION:

APPLICANT: Fridakis, Tony N.

Smith, John M.

Reed, Steven G.

TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE

TREATMENT AND DIAGNOSIS OF BREAST CANCER

NUMBER OF SEQUENCES: 297

CORRESPONDENCE ADDRESS:

ADDRESSER: SEED and BERRY LLP

STREET: 6300 Columbia Center, 701 Fifth Avenue

CITY: Seattle  
STATE: Washington  
COUNTRY: USA  
ZIP: 98104-7092  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/062,451  
FILING DATE: 04-Apr-1997  
CLASSIFICATION:  
ATTORNEY/AGENT INFORMATION:  
NAME: Mark, David J.  
REGISTRATION NUMBER: 31,392  
REFERENCE/DOCKET NUMBER: 210121.419C2  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (206) 682-4900  
TELEFAX: (206) 682-6031  
INFORMATION FOR SEQ ID NO: 290:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 1646 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
US-09-062-451-290

Query Match 8.0%; Score 37.8; DB 4; Length 1646;  
Best Local Similarity 50.8%; Pred. No. 0.36;  
Matches 90; Conservative 0; Mismatches 87; Indels 0; Gaps 0;

QY 240 AGAATACCGAGTACCACTTGGGTAGGATTGGTATTTCGCATTAACAGTGC 299  
DB 1165 AATTAACAGGCTTCAGATTATCTGGCTTCAATTAATTTCTTTAAAGAAA 1106  
QY 300 TTGAACCCATTCTCTAATCTGACCAAGACCAATTAAGAAATGATTCATCGGT 359  
DB 1105 ATATCAACCCATGTGATGACAGTCTTTCAAGCATTTAATAGAGGTAAACCTT 1046  
QY 360 TTGGATACATACAGACAGAAATCTATGACAGCAAGGATAGAAACATAT 416  
DB 1045 TGAATATTATACAGAAAGAAATGATTCATTATGCAATAAAATTAATATATAT 989

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Job time : 62 secs





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GenCore version 5.1.3  
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OM nucleic - nucleic search, using SW model

Run on: February 3, 2003, 12:57:47 ; Search time 53 Seconds  
(without alignments)  
4017.953 Million cell updates/sec

Title: US-10-049-568-1  
Perfect score: 474  
Sequence: 1 gccacagattatcagtcgac.....ggaagatccacactgattaa 474

Scoring table:  
IDENTITY NUC  
Gapop 10.0, Gapext 1.0

Searched: 396772 seqs, 224632407 residues

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Minimum DB seq length: 0  
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : Published Applications NA:\*

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13: /cgn2\_6/ptodata/2/pubpna/US60\_NEW\_PUB.seq:\*  
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
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2	438.8	92.6	530	9	US-09-989-442-33
3	438.8	92.6	530	10	US-09-764-853-137
4	438.8	92.6	530	10	US-09-764-853-137
5	436.6	92.1	612	10	US-09-895-686-37
6	436.6	92.1	2049	10	US-09-928-175-11
7	171.8	36.2	2193	10	US-09-928-175-6
8	171.8	36.2	2265	10	US-09-928-175-1
9	146.2	30.8	2214	10	US-09-928-175-1
10	107.2	22.6	432	10	US-09-928-175-1
11	37.8	8.0	1265	9	US-09-895-686-62
12	37.8	8.0	1265	10	US-09-924-400-169
13	37.8	8.0	1265	10	US-09-810-936-169
14	37.8	8.0	1265	10	US-09-429-755-169
15	37.8	8.0	1646	9	US-09-924-400-290
16	37.8	8.0	1646	10	US-09-810-936-290
17	37.8	8.0	1646	10	US-09-429-755-290
18	37.6	7.9	2217	10	US-09-925-297-258
19	37.2	7.8	443	9	US-09-790-988-1
					Sequence 3315, Ap

20	36.4	7.7	393	10	US-09-960-352-4582	Sequence 4582, Ap
21	34.8	7.3	1176	10	US-09-738-968-43	Sequence 43, Appl
22	34.8	7.3	659158	9	US-09-771-208-20	Sequence 20, Appl
23	34.4	7.3	465237	10	US-09-933-267A-1	Sequence 1, Appl
24	33.4	7.0	432	9	US-09-796-692-4122	Sequence 4122, Ap
25	33.4	7.0	1872	9	US-09-938-842A-3504	Sequence 3504, Ap
26	33.4	7.0	2000	9	US-09-938-842A-4747	Sequence 4747, Ap
27	33.4	7.0	5006	10	US-09-837-751-7	Sequence 7, Appl
28	33	7.0	390	9	US-09-954-531-311	Sequence 311, Appl
29	33	7.0	390	9	US-09-954-531-311	Sequence 527, App
30	33	7.0	411	10	US-09-764-877-2632	Sequence 2632, Ap
31	32.6	6.9	366	10	US-09-864-761-10652	Sequence 10652, A
32	32.6	6.9	366	10	US-09-864-761-10652	Sequence 1435, A
33	32.6	6.9	498	10	US-09-939-990-53	Sequence 53, Appl
34	32.6	6.9	884	9	US-09-910-664-90	Sequence 90, Appl
35	32.4	6.8	499	10	US-09-763-590-8126	Sequence 8126, Ap
36	32.4	6.8	948	10	US-09-815-242-4682	Sequence 4682, Ap
37	32.4	6.8	2000	9	US-09-938-842A-4813	Sequence 4813, Ap
38	32.4	6.8	172637	10	US-09-805-458A-3	Sequence 3, Appl
39	32.4	6.8	326014	10	US-09-731-231A-3	Sequence 1, Appl
40	32.4	6.8	640681	10	US-09-790-988-1	Sequence 36, Appl
41	32	6.8	849	9	US-10-001-876-36	Sequence 4463, Ap
42	32	6.8	2403	10	US-09-815-242-4463	Sequence 8421, Ap
43	32	6.8	2406	10	US-09-815-242-8421	Sequence 30, Appl
44	32	6.8	4259	8	US-08-927-939-30	Sequence 1, Appl
45	32	6.8	465237	10	US-09-933-267A-1	

ALIGNMENTS

RESULT 1  
US-09-895-686-10  
Sequence 10, Application US/09895686  
Patent No. US2002010655A1  
GENERAL INFORMATION:  
APPLICANT: Bandman, Olga  
APPLICANT: Lal, Preeti  
APPLICANT: Tang, Y. Tom  
APPLICANT: Baughn, Mariah R.  
TITLE OF INVENTION: HUMAN GPCR PROTEINS  
FILE REFERENCE: PC-0044 CIP  
CURRENT APPLICATION NUMBER: US/09/895,686  
CURRENT FILING DATE: 2001-06-28  
NUMBER OF SEQ ID NOS: 74  
SOFTWARE: PERL Program  
SEQ ID NO 10  
LENGTH: 1804  
TYPE: DNA  
ORGANISM: Homo sapiens  
FEATURE:  
NAME/KEY: misc feature  
OTHER INFORMATION: Incyte ID No. US2002010655A1 2488822CBI  
US-09-895-686-10

Query Match 92.7%, Score 439.2; DB 10; Length 1804;  
Best Local Similarity 96.8%; Pred. No. 2.9e+108;  
Matches 459; Conservative 0; Mismatches 13; Indels 2; Gaps 1;  
QY 1 GCCCAGATTATTCAGTGGCAATTTTCTTGATTAATTTGGCCGATTTATCATATA 60  
DB 792 GCCCAGATTATTCAGTGGCAATTTTCTTGATTAATTTGGCCGATTTATCATATA 851  
QY 61 GTTTTTCCTATGGAAGATGTTTATATGCTTATCAATAAGTCATTAAGCAATGAA 120  
DB 852 GTTTTTCCTATGGAAGATGTTTATATGCTTATCAATAAGTCATTAAGCAATGAA 911  
QY 121 ATACGAATCAAGTTAAAGAGATGATCCCTTCGCAACGTTTCTTATAGTATTT 180  
DB 912 ATACGAATCAAGTTAAAGAGATGATCCCTTCGCAACGTTTCTTATAGTATTT 971  
QY 181 ACTGATGATTAATGCTGATACCAATTTTGTACGAAACCTCTTACGCTTCAGGTA 240

Db 972 ACTGATGATTTATGCTGATATACCATTTTGTGATGATAATTTCTTCACTGCTTCAAGTA 1031  
Qy 241 GAAATCCAGATACCATTAACCTCTTGAGTAGTATGTTATCTGCATTAACAGTGTCT 300  
Db 1032 GAAATCCAGATACCATTAACCTCTTGAGTAGTATGTTATCTGCATTAACAGTGTCT 1091  
Qy 301 TTGAACCAATTTCTATATCTGACCAAGCACTTTAAGAAATGATTCATCGGTTT 360  
Db 1092 TTGAACCAATTTCTATATCTGACCAAGCACTTTAAGAAATGATTCATCGGTTT 1151  
Qy 361 TGGCATTAACAGCAAAAGAAATCTATGAGCAAGCAAGGTATGAGAAACATATGCTC 420  
Db 1152 TGGATTAACAGCAAAAGAAATCTATGAGCAAGCAAGGTATGAGAAACATATGCTC 1209  
Qy 421 CATCATTCATCTGGGGGAAATGTGGCCATGAGAGATGACCACTGAGTTAA 474  
Db 1210 CATCATTCATCTGGGGGAAATGTGGCCATGAGAGATGACCACTGAGTTAA 1263  
ULT 2  
09-989-442-33  
Sequence 33, Application US/09989442  
Publication No. US20030013649A1  
GENERAL INFORMATION:  
APPLICANT: Rosen et al.  
TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies  
FILE REFERENCE: P208  
CURRENT APPLICATION NUMBER: US/09/989,442  
PRIOR FILING DATE: 2001-11-21  
PRIOR APPLICATION NUMBER: 60/179,065  
PRIOR FILING DATE: 2000-01-31  
PRIOR APPLICATION NUMBER: 60/180,628  
PRIOR FILING DATE: 2000-02-04  
PRIOR APPLICATION NUMBER: 60/214,886  
PRIOR FILING DATE: 2000-06-28  
PRIOR APPLICATION NUMBER: 60/217,487  
PRIOR FILING DATE: 2000-07-11  
PRIOR APPLICATION NUMBER: 60/225,758  
PRIOR FILING DATE: 2000-08-14  
PRIOR APPLICATION NUMBER: 60/220,963  
PRIOR FILING DATE: 2000-07-26  
PRIOR APPLICATION NUMBER: 60/217,496  
PRIOR FILING DATE: 2000-07-11  
PRIOR APPLICATION NUMBER: 60/225,447  
PRIOR FILING DATE: 2000-08-14  
PRIOR APPLICATION NUMBER: 60/218,290  
PRIOR FILING DATE: 2000-07-14  
PRIOR APPLICATION NUMBER: 60/225,757  
PRIOR FILING DATE: 2000-08-14  
PRIOR APPLICATION NUMBER: 60/226,868  
PRIOR FILING DATE: 2000-08-22  
PRIOR APPLICATION NUMBER: 60/216,647  
PRIOR FILING DATE: 2000-07-07  
PRIOR APPLICATION NUMBER: 60/225,267  
PRIOR FILING DATE: 2000-08-14  
PRIOR APPLICATION NUMBER: 60/216,880  
PRIOR FILING DATE: 2000-07-07  
PRIOR APPLICATION NUMBER: 60/225,270  
PRIOR FILING DATE: 2000-08-14  
PRIOR APPLICATION NUMBER: 60/251,869  
PRIOR FILING DATE: 2000-12-08  
PRIOR APPLICATION NUMBER: 60/235,834  
PRIOR FILING DATE: 2000-09-27  
PRIOR APPLICATION NUMBER: 60/234,274  
PRIOR FILING DATE: 2000-09-21  
PRIOR APPLICATION NUMBER: 60/234,223  
PRIOR FILING DATE: 2000-09-21  
PRIOR APPLICATION NUMBER: 60/228,924  
PRIOR FILING DATE: 2000-08-30  
PRIOR APPLICATION NUMBER: 60/224,518  
PRIOR FILING DATE: 2000-08-14  
PRIOR APPLICATION NUMBER: 60/236,369  
PRIOR FILING DATE: 2000-09-29

PRIOR APPLICATION NUMBER: 60/224,519  
PRIOR FILING DATE: 2000-08-14  
PRIOR APPLICATION NUMBER: 60/220,964  
PRIOR FILING DATE: 2000-07-26  
PRIOR APPLICATION NUMBER: 60/241,809  
PRIOR FILING DATE: 2000-10-20  
PRIOR APPLICATION NUMBER: 60/249,299  
PRIOR FILING DATE: 2000-11-17  
PRIOR APPLICATION NUMBER: 60/236,327  
PRIOR FILING DATE: 2000-09-29  
PRIOR APPLICATION NUMBER: 60/241,785  
PRIOR FILING DATE: 2000-10-20  
PRIOR APPLICATION NUMBER: 60/244,617  
PRIOR FILING DATE: 2000-11-01  
PRIOR APPLICATION NUMBER: 60/225,268  
PRIOR FILING DATE: 2000-08-14  
PRIOR APPLICATION NUMBER: 60/236,368  
PRIOR FILING DATE: 2000-09-29  
PRIOR APPLICATION NUMBER: 60/251,856  
PRIOR FILING DATE: 2000-12-08  
PRIOR APPLICATION NUMBER: 60/251,868  
PRIOR FILING DATE: 2000-12-08  
PRIOR APPLICATION NUMBER: 60/229,344  
PRIOR FILING DATE: 2000-09-01  
PRIOR APPLICATION NUMBER: 60/234,997  
PRIOR FILING DATE: 2000-09-25  
PRIOR APPLICATION NUMBER: 60/229,343  
PRIOR FILING DATE: 2000-09-01  
PRIOR APPLICATION NUMBER: 60/229,345  
PRIOR FILING DATE: 2000-09-01  
PRIOR APPLICATION NUMBER: 60/229,287  
PRIOR FILING DATE: 2000-09-01  
PRIOR APPLICATION NUMBER: 60/229,513  
PRIOR FILING DATE: 2000-09-05  
PRIOR APPLICATION NUMBER: 60/231,413  
PRIOR FILING DATE: 2000-09-08  
PRIOR APPLICATION NUMBER: 60/229,509  
PRIOR FILING DATE: 2000-09-05  
PRIOR APPLICATION NUMBER: 60/236,367  
PRIOR FILING DATE: 2000-09-29  
PRIOR APPLICATION NUMBER: 60/237,039  
PRIOR FILING DATE: 2000-10-02  
PRIOR APPLICATION NUMBER: 60/237,038  
PRIOR FILING DATE: 2000-10-02  
PRIOR APPLICATION NUMBER: 60/236,370  
PRIOR FILING DATE: 2000-09-29  
PRIOR APPLICATION NUMBER: 60/236,802  
PRIOR FILING DATE: 2000-10-02  
PRIOR APPLICATION NUMBER: 60/237,037  
PRIOR FILING DATE: 2000-10-02  
PRIOR APPLICATION NUMBER: 60/237,040  
PRIOR FILING DATE: 2000-10-02  
PRIOR APPLICATION NUMBER: 60/240,960  
PRIOR FILING DATE: 2000-10-20  
PRIOR APPLICATION NUMBER: 60/239,935  
PRIOR FILING DATE: 2000-10-13  
PRIOR APPLICATION NUMBER: 60/239,937  
PRIOR FILING DATE: 2000-10-13  
PRIOR APPLICATION NUMBER: 60/241,787  
PRIOR FILING DATE: 2000-10-20  
PRIOR APPLICATION NUMBER: 60/246,474  
PRIOR FILING DATE: 2000-11-08  
PRIOR APPLICATION NUMBER: 60/246,532  
PRIOR FILING DATE: 2000-11-08  
PRIOR APPLICATION NUMBER: 60/249,216  
PRIOR FILING DATE: 2000-11-17  
PRIOR APPLICATION NUMBER: 60/249,210  
PRIOR FILING DATE: 2000-11-17  
PRIOR APPLICATION NUMBER: 60/226,681  
PRIOR FILING DATE: 2000-08-22  
PRIOR APPLICATION NUMBER: 60/225,759  
PRIOR FILING DATE: 2000-08-14  
PRIOR APPLICATION NUMBER: 60/225,213

PRIOR FILING DATE: 2000-08-14  
 PRIOR APPLICATION NUMBER: 60/227,182  
 PRIOR FILING DATE: 2000-08-22  
 PRIOR APPLICATION NUMBER: 60/225,214  
 PRIOR FILING DATE: 2000-08-14  
 PRIOR APPLICATION NUMBER: 60/235,836  
 PRIOR FILING DATE: 2000-09-27  
 PRIOR APPLICATION NUMBER: 60/230,438  
 PRIOR FILING DATE: 2000-09-06  
 PRIOR APPLICATION NUMBER: 60/215,135  
 PRIOR FILING DATE: 2000-06-30  
 PRIOR APPLICATION NUMBER: 60/225,266  
 PRIOR FILING DATE: 2000-08-14  
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 PRIOR FILING DATE: 2000-11-17  
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 PRIOR FILING DATE: 2000-11-17  
 PRIOR APPLICATION NUMBER: 60/249,213  
 PRIOR FILING DATE: 2000-11-17  
 PRIOR APPLICATION NUMBER: 60/249,212  
 PRIOR FILING DATE: 2000-11-17  
 PRIOR APPLICATION NUMBER: 60/249,207  
 PRIOR FILING DATE: 2000-11-17  
 PRIOR APPLICATION NUMBER: 60/249,245  
 PRIOR FILING DATE: 2000-11-17  
 PRIOR APPLICATION NUMBER: 60/249,244  
 PRIOR FILING DATE: 2000-11-17  
 PRIOR APPLICATION NUMBER: 60/249,217  
 PRIOR FILING DATE: 2000-11-17  
 PRIOR APPLICATION NUMBER: 60/249,211  
 PRIOR FILING DATE: 2000-11-17  
 PRIOR APPLICATION NUMBER: 60/249,215  
 PRIOR FILING DATE: 2000-11-17  
 PRIOR APPLICATION NUMBER: 60/249,264  
 PRIOR FILING DATE: 2000-11-17  
 PRIOR APPLICATION NUMBER: 60/249,214  
 PRIOR FILING DATE: 2000-11-17  
 PRIOR APPLICATION NUMBER: 60/249,297  
 PRIOR FILING DATE: 2000-11-17  
 PRIOR APPLICATION NUMBER: 60/232,400  
 PRIOR FILING DATE: 2000-09-14  
 PRIOR APPLICATION NUMBER: 60/231,242  
 PRIOR FILING DATE: 2000-09-08  
 PRIOR APPLICATION NUMBER: 60/232,081  
 PRIOR FILING DATE: 2000-09-08  
 PRIOR APPLICATION NUMBER: 60/232,080  
 PRIOR FILING DATE: 2000-09-08  
 PRIOR APPLICATION NUMBER: 60/231,414  
 PRIOR FILING DATE: 2000-09-08  
 PRIOR APPLICATION NUMBER: 60/231,244  
 PRIOR FILING DATE: 2000-09-08  
 PRIOR APPLICATION NUMBER: 60/233,064  
 PRIOR FILING DATE: 2000-09-14  
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 PRIOR FILING DATE: 2000-09-14  
 PRIOR APPLICATION NUMBER: 60/232,397  
 PRIOR FILING DATE: 2000-09-14  
 PRIOR APPLICATION NUMBER: 60/232,399  
 PRIOR FILING DATE: 2000-09-14  
 PRIOR APPLICATION NUMBER: 60/232,401  
 PRIOR FILING DATE: 2000-09-14  
 PRIOR APPLICATION NUMBER: 60/241,808  
 PRIOR FILING DATE: 2000-10-20  
 PRIOR APPLICATION NUMBER: 60/241,826  
 PRIOR FILING DATE: 2000-10-20  
 PRIOR APPLICATION NUMBER: 60/241,786  
 PRIOR FILING DATE: 2000-10-20  
 PRIOR APPLICATION NUMBER: 60/241,221  
 PRIOR FILING DATE: 2000-10-20  
 PRIOR APPLICATION NUMBER: 60/246,475  
 PRIOR FILING DATE: 2000-11-08  
 PRIOR APPLICATION NUMBER: 60/231,243  
 PRIOR FILING DATE: 2000-09-08

PRIOR APPLICATION NUMBER: 60/233,065  
 PRIOR FILING DATE: 2000-09-14  
 Query Match 92.6%; Score 438.8; DB 9; Length 530;  
 Best Local Similarity 96.6%; Pred. No. 2.4e-108;  
 Matches 458; Conservative 1; Mismatches 13; Indels 2; Gaps 1;  
 QY 1 GCCGAGTTTATTCAGTGGCAATTTCTTGGTATTAATTTGGCCGATTTATCATATA 60  
 DB 2 GCCGAGTTTATTCAGTGGCAATTTCTTGGTATTAATTTGGCCGATTTATCATATA 61  
 QY 61 GTTTTTCCTATGAGAGCATGTTTATAGTTCATCAAAAGTCCATTAACAGCACTGAA 120  
 DB 62 GTTTTTCCTATGAGAGCATGTTTATAGTTCATCAAAAGTCCATTAACAGCACTGAA 121  
 QY 121 ATACGGAATCAAGTTAAAGAGATGATCCTTGGCAACGTTTCTTATATGATTT 180  
 DB 122 ATACGGAATCAAGTTAAAGAGATGATCCTTGGCAACGTTTCTTATATGATTT 181  
 QY 181 ACTGATGATTAAGTGGATTAACCATTTTGTAGGAAACCTCTTCACTGCTCAGGTA 240  
 DB 182 ACTGATGATTAAGTGGATTAACCATTTTGTAGGAAATTTCTTCACTGCTCAGGTA 241  
 QY 241 GAAATACAGTATCAATTAACCTCTTGGTATGATTTGTTATTTCTGCAATTAACAGTCT 300  
 DB 242 GAAATACAGTATCAATTAACCTCTTGGTATGATTTTATTTCTGCAATTAACAGTCT 301  
 QY 301 TTGAACCAATTTCTTATATCTGTACCAAGACCAATTTAAAGAAATGATTCATGCTTT 360  
 DB 302 TTGAACCAATTTCTTATATCTGTACCAAGACCAATTTAAAGAAATGATTCATGCTTT 361  
 QY 361 TGGCAATTAACAGCAAAAGAAATCTATGACAGCAAGATTAAGAAATCATATGCTC 420  
 DB 362 TGGTATTAACAGCAAAAGAAATCTATGACAGCAAGATTAAGAAATCATATGCTC 419  
 QY 421 CATCATTCATCTGGGGGAAATGTGGCCACTGACAGAGATCCCACTGATTTAA 474  
 DB 420 CATCATTCATCTGGGGTGAAGATGTGGCCACTGACAGAGATCCCACTGATTTAA 473  
 RESULT 3  
 US-09-764-853-137  
 ; Sequence 137, Application US/09764853  
 ; Patent No. US20020090672A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Rosen et al.  
 ; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies  
 ; FILE REFERENCE: P1206  
 ; CURRENT FILING DATE: 2001-01-17  
 ; Prior application data removed - consult PAM or file wrapper  
 ; NUMBER OF SEQ ID NOS: 939  
 ; SOFTWARE: PatentIn Ver. 2.0  
 ; SEQ ID NO 137  
 ; LENGTH: 530  
 ; TYPE: DNA  
 ; ORGANISM: Homo sapiens  
 US-09-764-853-137  
 Query Match 92.6%; Score 438.8; DB 10; Length 530;  
 Best Local Similarity 96.6%; Pred. No. 2.4e-108;  
 Matches 458; Conservative 1; Mismatches 13; Indels 2; Gaps 1;  
 QY 1 GCCGAGTTTATTCAGTGGCAATTTCTTGGTATTAATTTGGCCGATTTATCATATA 60  
 DB 2 GCCGAGTTTATTCAGTGGCAATTTCTTGGTATTAATTTGGCCGATTTATCATATA 61  
 QY 61 GTTTTTCCTATGAGAGCATGTTTATAGTTCATCAAAAGTCCATTAACAGCACTGAA 120  
 DB 62 GTTTTTCCTATGAGAGCATGTTTATAGTTCATCAAAAGTCCATTAACAGCACTGAA 121  
 QY 121 ATACGGAATCAAGTTAAAGAGATGATCCTTGGCAACGTTTCTTATATGATTT 180  
 DB 122 ATACGGAATCAAGTTAAAGAGATGATCCTTGGCAACGTTTCTTATATGATTT 181

Db 122 ATACGGAATCAAGTAAAGAAAAAGATGATCCTTGGCAAGCTTTTCTTATAGATTT 181  
Qy 181 ACTGATGATTAATGCTGGATACCCATTTTGTAGCGAAACCTTTTCACTGCTTCAGGTA 240  
Db 182 ACTGATGATTAATGCTGGATACCCATTTTGTAGCGAAATTTCTTTCACGCTTCAGGTA 241  
Qy 241 GAAATACAGGTACATTAACCTTTGGGTAGTGAATGGTATTCGTCCATTAACAGGCT 300  
Db 242 GAAATACAGGTACATTAACCTTTGGGTAGTGAATTTTATTTTGTCCCATTAACAGGCT 301  
Qy 301 TTGAACCAATTTCTTACTCTGTACCAAGACATTTTAAAGAAATGATTCATCGGTTT 360  
Db 302 TTGAACCAATTTCTTACTCTGTACCAAGACATTTTAAAGAAATGATTCATCGGTTT 361  
Qy 361 TGGCATTAATCAGACAAAGAAAATCTATGAGACGCAAGGATTCAGAAAACATATGCTC 420  
Db 362 TGGTAACTACACAGCAAAAGAAAATCTATGAGACGCAAGG--TCAGAAAACATATGCTC 419  
Qy 421 CATCATTCATCTGGGGGAAATGTGGCCACTGACAGAGATGCCACTGAGTTAA 474  
420 CATCATTCATCTGGGTGAAATGTGGCCACTGACAGAGATGCCACTGAGTTAA 473

## RESULT 4

US-09-764-877-986  
Sequence 986, Application US/09764877  
Patent No. US20020147140A1  
GENERAL INFORMATION:  
APPLICANT: Rosen et al.  
TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies  
FILE REFERENCE: PC005  
CURRENT APPLICATION NUMBER: US/09/764,877  
CURRENT FILING DATE: 2001-01-17  
Prior application data removed - refer to PALM or file wrapper  
NUMBER OF SEQ ID NOS: 4031  
SOFTWARE: PatentIn Ver. 2.0  
SEQ ID NO 986  
LENGTH: 530  
TYPE: DNA  
ORGANISM: Homo sapiens  
US-09-764-877-986

Query Match 92.6%; Score 438.8; DB 10; Length 530;

Best Local Similarity 96.6%; Pred. No. 2,4e-108; Indels 2; Gaps 1;  
Matches 458; Conservative 1; Mismatches 13;

Qy 1 GCCCAGATTATTCAGTGGCAATTTTCTTGGTATTAATTTGGCCGCAATTTATCATATA 60  
2 GCCCAGATTATTCAGTGGCAATTTTCTTGGTATTAATTTGGCCGCAATTTATCATATA 61  
Qy 61 GTTTTTCCTATGAGAGCATGTTTATNGTGTTCATCAAAGTCCATTAACGCACTGAA 120  
Db 62 GTTTTTCCTATGAGAGCATGTTTATNGTGTTCATCAAAGTCCATTAACGCACTGAA 121  
Qy 121 ATACGATCAAGTAAAGAAAGATGATCCTTGGCAAGCTTTTCTTATAGTATTT 180  
Db 122 ATACGATCAAGTAAAGAAAGATGATCCTTGGCAAGCTTTTCTTATAGTATTT 181  
Qy 181 ACTGATGATTAATGCTGGATACCCATTTTGTAGCGAAACCTTTTCACTGCTTCAGGTA 240  
Db 182 ACTGATGATTAATGCTGGATACCCATTTTGTAGCGAAATTTCTTTCACGCTTCAGGTA 241  
Qy 241 GAAATACAGGTACATTAACCTTTGGGTAGTGAATGGTATTCGTCCATTAACAGGCT 300  
Db 242 GAAATACAGGTACATTAACCTTTGGGTAGTGAATTTTATTTTGTCCCATTAACAGGCT 301  
Qy 301 TTGAACCAATTTCTTACTCTGTACCAAGACATTTTAAAGAAATGATTCATCGGTTT 360  
Db 302 TTGAACCAATTTCTTACTCTGTACCAAGACATTTTAAAGAAATGATTCATCGGTTT 361  
Qy 361 TGGCATTAATCAGACAAAGAAAATCTATGAGACGCAAGGATTCAGAAAACATATGCTC 420  
Db 362 TGGTAACTACACAGCAAAAGAAAATCTATGAGACGCAAGG--TCAGAAAACATATGCTC 419

Qy 421 CATCATTCATCTGGGGGAAATGTGGCCACTGACAGAGATGCCACTGAGTTAA 474  
Db 420 CATCATTCATCTGGGTGAAATGTGGCCACTGACAGAGATGCCACTGAGTTAA 473

## RESULT 5

US-09-895-686-37/C  
Sequence 37, Application US/09895686  
Patent No. US2002010655A1  
GENERAL INFORMATION:  
APPLICANT: Bandman, Olga  
APPLICANT: Lal, Preeti  
APPLICANT: Tang, Y. Tom  
APPLICANT: Baughn, Mariah R.  
TITLE OF INVENTION: HUMAN GPCR PROTEINS  
FILE REFERENCE: PC-0044 CIP  
CURRENT APPLICATION NUMBER: US/09/895,686  
CURRENT FILING DATE: 2001-06-28  
NUMBER OF SEQ ID NOS: 74  
SOFTWARE: PERL Program  
SEQ ID NO 37  
LENGTH: 612  
TYPE: DNA  
ORGANISM: Homo sapiens  
FEATURE:  
NAME/KEY: misc.feature  
OTHER INFORMATION: Inocyte ID No. US2002010655A1 2488822X308B1  
NAME/KEY: unsure  
LOCATION: 561  
OTHER INFORMATION: a, t, c, g, or other  
US-09-895-686-37

Query Match 92.1%; Score 436.6; DB 10; Length 612;  
Best Local Similarity 96.6%; Pred. No. 9.6e-108;  
Matches 457; Conservative 0; Mismatches 14; Indels 2; Gaps 1;

Qy 2 CCCAGATTATTCAGTGGCAATTTTCTTGGTATTAATTTGGCCGCAATTTATCATATA 61  
Db 497 CCCAGATTATTCAGTGGCAATTTTCTTGGTATTAATTTGGCCGCAATTTATCATATA 61  
Qy 62 TTTTTCCTATGAGAGCATGTTTATNGTGTTCATCAAAGTCCATTAACGCACTGAA 121  
Db 437 TTTTTCCTATGAGAGCATGTTTATNGTGTTCATCAAAGTCCATTAACGCACTGAA 121  
Qy 122 TACGATCAAGTAAAGAAAGATGATCCTTGGCAAGCTTTTCTTATAGTATTT 181  
Db 377 TACGATCAAGTAAAGAAAGATGATCCTTGGCAAGCTTTTCTTATAGTATTT 181  
Qy 182 CTGATGATTAATGCTGGATACCCATTTTGTAGCGAAACCTTTTCACTGCTTCAGGTA 241  
Db 317 CTGATGATTAATGCTGGATACCCATTTTGTAGCGAAATTTCTTTCACGCTTCAGGTA 241  
Qy 242 AATACCAAGTACCAATTAACCTTTGGGTAGTGAATGGTATTCGTCCATTAACAGGCT 301  
Db 257 AATACCAAGTACCAATTAACCTTTGGGTAGTGAATTTTATTTTGTCCCATTAACAGGCT 301  
Qy 302 TGAACCAATTTCTTACTCTGTACCAAGACATTTTAAAGAAATGATTCATCGGTTT 361  
Db 197 TGAACCAATTTCTTACTCTGTACCAAGACATTTTAAAGAAATGATTCATCGGTTT 361  
Qy 362 GGCATTAATCAGACAAAGAAAATCTATGAGACGCAAGGATTCAGAAAACATATGCTC 421  
Db 137 GGCATTAATCAGACAAAGAAAATCTATGAGACGCAAGG--TCAGAAAACATATGCTC 421  
Qy 422 ATCATTCATCTGGGTGAAATGTGGCCACTGACAGAGATGCCACTGAGTTAA 474  
Db 79 ATCATTCATCTGGGTGAAATGTGGCCACTGACAGAGATGCCACTGAGTTAA 27

## RESULT 6

US-09-928-175-11  
Sequence 11, Application US/09928175

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/ Patent No. US20020123618A1
/ GENERAL INFORMATION:
/ APPLICANT: Paszky, Christopher J.
/ APPLICANT: Gong, Jianhua
/ APPLICANT: Daugherty, Betsy
/ APPLICANT: Rogers, No. US20020123618A1ma
/ TITLE OF INVENTION: Leucine-Rich G Protein Coupled Receptor-8 Molecules and
/ FILE REFERENCE: 00-1229
/ CURRENT APPLICATION NUMBER: US/09/928,175
/ PRIOR FILING DATE: 2001-08-10
/ PRIOR APPLICATION NUMBER: 60/224,455
/ NUMBER OF SEQ ID NOS: 42
/ SOFTWARE: Patentin Ver. 2.0
/ SEQ ID NO 11
/ LENGTH: 2049
/ TYPE: DNA
/ ORGANISM: Homo sapiens
/ FEATURE:
/ NAME/KEY: CDS
/ NAME/KEY: s19_peptide
/ LOCATION: (1)..(108)
US-09-928-175-11
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Query Match 36.2% Score 171.8; DB 10; Length 2049;

Best Local Similarity 67.4%; Pred. No. 1,1e-36;

Matches 242; Conservative 0; Mismatches 117; Indels 0; Gaps 0;

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QY 10 TATTCAGTGGCAATTTTCTTGATTAATTTGGCCGATTTATCATCATAGTTTTTCC 69
DB 1549 TATTCCTTGGAAATTTTCTAGAGTGAACCTTGCTGCTTTCTCATCATGTGTTTCC 1608
QY 70 TATGGAAGCATTTTATAGTTCATCAAGGCGATACAGCAATGGAAT 129
DB 1609 TATATTACTATGTCTGTTCCATTAACCAACCGCTTGACACAGAGTAAGGAAT 1668
QY 130 CAAGTAAAAAGAGATGATCTTGCCAAACGTTTTCTTATAGTATTACTGATCA 189
DB 1669 TGTTTGGAAGAGAGTGCGTGTGCAAAATCGTTCTTTTATAGTGTCTGATGCC 1728
QY 190 TTAGCTGATACCATTTTGTAGGAAAACCTTTTCACTGCTCAGGTAGAAATACCA 249
DB 1729 ATCTGCTGGAATCTCTGATTTAGTTAAATCTTTCCCTTCGCGGTGGAATACCA 1788
QY 250 GGTACCATACCTCTTGAGTAGTATGTTATTCGCAATTAACAGTCTTTGAACCA 309
DB 1789 GACACATGACTTCCGATAGATGATTTTTCCTTCCAGTTACAGTCTTTGAATCA 1848
QY 310 ATTCTTATCTCTGACACAGACCAATTTAAAGAAATGATTCAGTTTGGCATTA 368
DB 1849 ATCCTTATCTCTCAACCAACATTTTAAAGACAGTGAACAGCTGCTGCACAA 1907
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## RESULT 7

US-09-928-175-6

/ Sequence 6, Application US/09928175

/ Patent No. US20020123618A1

/ GENERAL INFORMATION:

/ APPLICANT: Paszky, Christopher J.

/ APPLICANT: Gong, Jianhua

/ APPLICANT: Daugherty, Betsy

/ APPLICANT: Rogers, No. US20020123618A1ma

/ TITLE OF INVENTION: Leucine-Rich G Protein Coupled Receptor-8 Molecules and

/ FILE REFERENCE: 00-1229

/ CURRENT APPLICATION NUMBER: US/09/928,175

/ PRIOR FILING DATE: 2001-08-10

/ PRIOR APPLICATION NUMBER: 60/224,455

/ NUMBER OF SEQ ID NOS: 42

/ SOFTWARE: Patentin Ver. 2.0

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/ SEQ ID NO 6
/ LENGTH: 2193
/ TYPE: DNA
/ ORGANISM: Homo sapiens
/ FEATURE:
/ NAME/KEY: CDS
/ NAME/KEY: s19_peptide
/ LOCATION: (1)..(2190)
/ NAME/KEY: s19_peptide
/ LOCATION: (1)..(108)
US-09-928-175-6
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Query Match 36.2% Score 171.8; DB 10; Length 2193;

Best Local Similarity 67.4%; Pred. No. 1,1e-36;

Matches 242; Conservative 0; Mismatches 117; Indels 0; Gaps 0;

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QY 10 TATTCAGTGGCAATTTTCTTGATTAATTTGGCCGATTTATCATCATAGTTTTTCC 69
DB 1693 TATTCCTTGGAAATTTTCTAGAGTGAACCTTGCTGCTTTCTCATCATGTGTTTCC 1752
QY 70 TATGGAAGCATTTTATAGTTCATCAAGGCGATACAGCAATGGAAT 129
DB 1753 TATATTACTATGTCTGTTCCATTAACCAACCGCTTGACACAGAGTAAGGAAT 1812
QY 130 CAAGTAAAAAGAGATGATCTTGCCAAACGTTTTCTTATAGTATTACTGATCA 189
DB 1813 TGTTTGGAAGAGAGTGCGTGTGCAAAATCGTTCTTTTATAGTGTCTGATGCC 1872
QY 190 TTAGCTGATACCATTTTGTAGGAAAACCTTTTCACTGCTCAGGTAGAAATACCA 249
DB 1873 ATCTGCTGGAATCTCTGATTTAGTTAAATCTTTCCCTTCGCGGTGGAATACCA 1932
QY 250 GGTACCATACCTCTTGAGTAGTATGTTATTCGCAATTAACAGTCTTTGAACCA 309
DB 1933 GACACATGACTTCCGATAGATGATTTTTCCTTCCAGTTACAGTCTTTGAATCA 1992
QY 310 ATTCTTATCTCTGACACAGACCAATTTAAAGAAATGATTCAGTTTGGCATTA 368
DB 1993 ATCCTTATCTCTCAACCAACATTTTAAAGACAGTGAACAGCTGCTGCACAA 2051
```

## RESULT 8

US-09-928-175-1

/ Sequence 1, Application US/09928175

/ Patent No. US20020123618A1

/ GENERAL INFORMATION:

/ APPLICANT: Paszky, Christopher J.

/ APPLICANT: Gong, Jianhua

/ APPLICANT: Daugherty, Betsy

/ APPLICANT: Rogers, No. US20020123618A1ma

/ TITLE OF INVENTION: Leucine-Rich G Protein Coupled Receptor-8 Molecules and

/ FILE REFERENCE: 00-1229

/ CURRENT APPLICATION NUMBER: US/09/928,175

/ PRIOR FILING DATE: 2001-08-10

/ PRIOR APPLICATION NUMBER: 60/224,455

/ NUMBER OF SEQ ID NOS: 42

/ SOFTWARE: Patentin Ver. 2.0

/ SEQ ID NO 1

/ LENGTH: 2265

/ TYPE: DNA

/ ORGANISM: Homo sapiens

/ FEATURE:

/ NAME/KEY: CDS

/ NAME/KEY: s19\_peptide

/ LOCATION: (1)..(108)

/ LOCATION: (1)..(108)

US-09-928-175-1

Query Match 36.2% Score 171.8; DB 10; Length 2265;

Best Local Similarity 67.4%; Pred. No. 1,1e-36;

Matches 242; Conservative 0; Mismatches 117; Indels 0; Gaps 0;

QY 10 TATTCAGTGGCAATTTTCTTGATTAATTGGCCGCAATTTATCATAGTTTTC 69  
 DB 1765 TATTCCTGGAAATTTCTTAGAGTGAACCTTGCGCTTTCTCATATGTGTTC 1824  
 QY 70 TATGGAAGCATGTTTATAGTGTTCATCAAAATGCAATACAGCAACGAAATCCGAAAT 129  
 DB 1825 TATATTAATATGTTCTGTTCCATCAAAAAACCGCTTGACACACAGAAATAGAAAT 1884  
 QY 130 CAAGTTAAAAAGAGATGATCTCTGCCAAACGTTTTTCTTATATTAATTACTGATCA 189  
 DB 1885 TGTTTTGAAGAGAGTGGCTGTGCAAAATCGTTTCTTTTATAGTGTCTCATGACC 1944  
 QY 190 TTATGCTGGAATACCAATTTTGTAGCAAACTCTTTTCACTGCTTCAGGTAAATACCA 249  
 DB 1945 ATCTGCTGATTCCTGATTTAGTTAAATCTTTCCCTTCGCGGTGGAATATACCA 2004  
 QY 250 GGTACCATTAACCTCTGGGTAGATGTTATTCGCAATTAACAGTCTTTGAACCA 309  
 DB 2005 GACACATGACTTCTGATAGTATTTTCTTCCCTTCAGTTACAGTCTTTGAATCA 2064  
 QY 310 ATTCTATATCTGACCAACAAGACATTTAAAGAAATGATTCGTTTGGCATTA 368  
 DB 2065 ATCTCTATATCTGACCAACAAGACATTTTAAAGAAATGATTCGTTGACATA 2123

## RESULT 9

US-09-928-175-19  
 ; Sequence 19, Application US/09928175  
 ; Patent No. US20020123618A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Paszty, Christopher J.  
 ; APPLICANT: Gong, Jianhua  
 ; APPLICANT: Daugherty, Betsy  
 ; APPLICANT: Rogers, No. US20020123618A1ma  
 ; TITLE OF INVENTION: Leucine-Rich G Protein Coupled Receptor-8 Molecules and  
 ; TITLE OF INVENTION: Uses Thereof  
 ; FILE REFERENCE: 00-1229  
 ; CURRENT APPLICATION NUMBER: US/09/928,175  
 ; CURRENT FILING DATE: 2001-08-10  
 ; PRIOR APPLICATION NUMBER: 60/224,455  
 ; PRIOR FILING DATE: 2000-08-10  
 ; NUMBER OF SEQ ID NOS: 42  
 ; SOFTWARE: Patent In Ver. 2.0  
 ; SEQ ID NO 19  
 ; LENGTH: 2214  
 ; TYPE: DNA  
 ; ORGANISM: Mus musculus  
 ; FEATURE:  
 ; NAME/KEY: CDS  
 ; LOCATION: (1)..(2211)  
 ; NAME/KEY: sig\_peptide  
 ; LOCATION: (1)..(57)  
 ; US-09-928-175-19

Query Match 30.8%; Score 146.2; DB 10; Length 2214;  
 Best Local Similarity 63.0%; Pred. No. 8e-30;  
 Matches 226; Conservative 0; Mismatches 133; Indels 0; Gaps 0;

QY 10 TATTCAGTGGCAATTTTCTTGATTAATTGGCCGCAATTTATCATAGTTTTC 69  
 DB 1714 TATTCCTGGAAATTTCTTAGAGTGAACCTTGCGCTTTCTCATATGTGTTC 1773  
 QY 70 TATGGAAGCATGTTTATAGTGTTCATCAAAATGCAATACAGCAACGAAATCCGAAAT 129  
 DB 1774 TATGTCACAGATGTTCTGCTCATTCATTAACAGCCCTTCAGACTGCAAGAAATAGAGAC 1833  
 QY 130 CAAGTTAAAAAGAGATGATCTCTGCCAAACGTTTTTCTTATATTAATTACTGATCA 189  
 DB 1884 CACATCGGGAAGAGAGTGGCTGTGCAAAACGTTTCTTTTATCGTGTCTCATGATGCC 1893  
 QY 190 TTATGCTGGAATACCAATTTTGTAGCAAACTCTTTTCACTGCTTCAGGTAAATACCA 249  
 DB 1894 ATCTGCTGATTCCTGATTTAGTTAAATCTTTCCCTTCGCGGTGGAATATACCA 1953

QY 250 GGTACCATTAACCTCTGGGTAGATGTTATTCGCAATTAACAGTCTTTGAACCA 309  
 DB 1954 GGTACCATTAACCTCTGGGTAGATGTTATTCGCAATTAACAGTCTTTGAACCA 2013  
 QY 310 ATTCTATATCTGACCAACAAGACATTTAAAGAAATGATTCGTTTGGCATTA 368  
 DB 2014 ATCTCTATATCTGACCAACAAGACATTTTAAAGAAATGATTCGTTGACATA 2072

## RESULT 10

US-09-895-686-62/c  
 ; Sequence 62, Application US/09895686  
 ; Patent No. US20020106655A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Bandman, Olga  
 ; APPLICANT: Lal, Preeti  
 ; APPLICANT: Tang, Y. Tom  
 ; APPLICANT: Baughn, Mariah R.  
 ; TITLE OF INVENTION: HUMAN GPCR PROTEINS  
 ; FILE REFERENCE: PC-0044 CIP  
 ; CURRENT APPLICATION NUMBER: US/09/895,686  
 ; CURRENT FILING DATE: 2001-06-28  
 ; NUMBER OF SEQ ID NOS: 74  
 ; SOFTWARE: PERL Program  
 ; SEQ ID NO 62  
 ; LENGTH: 432  
 ; TYPE: DNA  
 ; ORGANISM: Rattus norvegicus  
 ; FEATURE:  
 ; NAME/KEY: misc feature  
 ; OTHER INFORMATION: Incyte ID No. US20020106655A1 70246609671  
 ; US-09-895-686-62

Query Match 22.6%; Score 107.2; DB 10; Length 432;  
 Best Local Similarity 79.5%; Pred. No. 1.2e-19;  
 Matches 140; Conservative 0; Mismatches 33; Indels 3; Gaps 1;

QY 35 TTAATTTGGCCGCAATTTATCATAGTGTTCCTTATGGAAGCATGTTTATAGTTC 94  
 DB 176 TTAACCTGTTGGCTTTATCATAGTGTTCCTTATGGAAGCATGTTTATAGTTC 117  
 QY 95 ATCAAGTGCATTAACAGCACTGAATACGATTCAGTTAAAAAGATGATTCCTG 154  
 DB 116 ATCAAGTGCATTAACAGCACTGAATACGATTCAGTTAAAAAGATGATTCCTG 57  
 QY 155 CCAAGCTTTTCTTTTATAGTATTTA---CTGATGATTAATGCTGATACCAATT 207  
 DB 56 CCAAGCTTTTCTTTTATAGTATTTA---CTGATGATTAATGCTGATACCAATT 1

## RESULT 11

US-09-924-400-169/c  
 ; Sequence 169, Application US/09924400  
 ; Patent No. US20020165371A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Fridakis, Tony N.  
 ; APPLICANT: Reed, Steven G.  
 ; APPLICANT: Smith, John M.  
 ; APPLICANT: Misher, Lynda E.  
 ; APPLICANT: Dillon, David C.  
 ; APPLICANT: Retter, Marc W.  
 ; APPLICANT: Wang, Aijun  
 ; APPLICANT: Skeiky, Yasir A. W.  
 ; APPLICANT: Harlocker, Susan L.  
 ; APPLICANT: Day, Craig H.  
 ; APPLICANT: Li, Samuel X.  
 ; APPLICANT: Deng, Ta  
 ; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY  
 ; TITLE OF INVENTION: AND DIAGNOSIS OF BREAST CANCER  
 ; FILE REFERENCE: 210121.419C12  
 ; CURRENT APPLICATION NUMBER: US/09/924,400  
 ; CURRENT FILING DATE: 2001-08-07

; NUMBER OF SEQ ID NOS: 340  
 ; SOFTWARE: FastSeq for Windows Version 4.0  
 ; SEQ ID NO 169  
 ; LENGTH: 1265  
 ; TYPE: DNA  
 ; ORGANISM: Homo sapiens  
 US-09-924-400-169

Query Match  
 Best Local Similarity 50.8%; Pred. No. 0.67; Length 1265;  
 Matches 90; Conservative 0; Mismatches 87; Indels 0; Gaps 0;

QY 240 AGAATACGAGTACATTAACCTCTGGGTAGTGAATGTTGATTCGTCATTAACAGTGC 299  
 DB 792 AAATTAACAGGCTTCAGATTACTTGGCTTCATTAATTAATTTCTTTAAAGAAA 733  
 QY 300 TTGAACCCATTTCTTATCTGTGACCAAGACCATTTAAAGAAATGATTCATCGGTT 359  
 DB 732 ATATCAACCATTTGTCAATGCACTGTTTTTCAAGCATTTAAATGAGGGTAAACCCCTT 673  
 DB 360 TTGGCATTAATACAGCAAGAAATCTATGACAGCAAGAGTATCAGAAACATAT 416  
 DB 672 TGGAAATTAATACAGAAAGAAATGATTCATTAATGCAATTAATAATATATAT 616

RESULT 12  
 US-09-810-936-169/c  
 ; Sequence 169, Application US/09810936  
 ; Patent No. US20020068285A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Fridakis, Tony N.  
 ; APPLICANT: Reed, Steven G.  
 ; APPLICANT: Smith, John M.  
 ; APPLICANT: Misher, Linda E.  
 ; APPLICANT: Dillon, Davin C.  
 ; APPLICANT: Retter, Marc W.  
 ; APPLICANT: Wang, Aijun  
 ; APPLICANT: Skeiky, Yasir A.W.  
 ; APPLICANT: Harlocker, Susan L.  
 ; APPLICANT: Day, Craig H.  
 ; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE  
 ; TITRE OF INVENTION: THERAPY AND DIAGNOSIS OF BREAST CANCER  
 ; FILE REFERENCE: 210121.419C11  
 ; CURRENT APPLICATION NUMBER: US/09/810.936  
 ; CURRENT FILING DATE: 2001-03-16  
 ; NUMBER OF SEQ ID NOS: 334  
 ; SOFTWARE: FastSeq for Windows Version 3.0  
 ; SEQ ID NO 169  
 ; LENGTH: 1265  
 ; TYPE: DNA  
 ; ORGANISM: Homo sapiens  
 US-09-810-936-169

Query Match  
 Best Local Similarity 50.8%; Pred. No. 0.67; Length 1265;  
 Matches 90; Conservative 0; Mismatches 87; Indels 0; Gaps 0;

QY 240 AGAATACGAGTACATTAACCTCTGGGTAGTGAATGTTGATTCGTCATTAACAGTGC 299  
 DB 792 AAATTAACAGGCTTCAGATTACTTGGCTTCATTAATTAATTTCTTTAAAGAAA 733  
 QY 300 TTGAACCCATTTCTTATCTGTGACCAAGACCATTTAAAGAAATGATTCATCGGTT 359  
 DB 732 ATATCAACCATTTGTCAATGCACTGTTTTTCAAGCATTTAAATGAGGGTAAACCCCTT 673  
 QY 360 TTGGCATTAATACAGCAAGAAATCTATGACAGCAAGAGTATCAGAAACATAT 416  
 DB 672 TGGAAATTAATACAGAAAGAAATGATTCATTAATGCAATTAATAATATAT 616

RESULT 13  
 US-09-429-755-169/c  
 ; Sequence 169, Application US/09429755A

; Patent No. US2002011467A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Fridakis, Tony N.  
 ; APPLICANT: Smith, John M.  
 ; APPLICANT: Reed, Steven G.  
 ; APPLICANT: Misher, Linda E.  
 ; APPLICANT: Retter, Marc W.  
 ; APPLICANT: Dillon, Davin C.  
 ; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE  
 ; TITRE OF INVENTION: TREATMENT AND DIAGNOSIS OF BREAST CANCER  
 ; FILE REFERENCE: 210121.419C6  
 ; CURRENT APPLICATION NUMBER: US/09/429.755A  
 ; CURRENT FILING DATE: 1999-10-28  
 ; NUMBER OF SEQ ID NOS: 315  
 ; SOFTWARE: FastSeq for Windows Version 3.0  
 ; SEQ ID NO 169  
 ; LENGTH: 1265  
 ; TYPE: DNA  
 ; ORGANISM: Homo sapiens  
 US-09-429-755-169

Query Match  
 Best Local Similarity 50.8%; Pred. No. 0.67; Length 1265;  
 Matches 90; Conservative 0; Mismatches 87; Indels 0; Gaps 0;

QY 240 AGAATACGAGTACATTAACCTCTGGGTAGTGAATGTTGATTCGTCATTAACAGTGC 299  
 DB 792 AAATTAACAGGCTTCAGATTACTTGGCTTCATTAATTAATTTCTTTAAAGAAA 733  
 QY 300 TTGAACCCATTTCTTATCTGTGACCAAGACCATTTAAAGAAATGATTCATCGGTT 359  
 DB 732 ATATCAACCATTTGTCAATGCACTGTTTTTCAAGCATTTAAATGAGGGTAAACCCCTT 673  
 QY 360 TTGGCATTAATACAGCAAGAAATCTATGACAGCAAGAGTATCAGAAACATAT 416  
 DB 672 TGGAAATTAATACAGAAAGAAATGATTCATTAATGCAATTAATAATATATAT 616

RESULT 14  
 US-09-924-400-290/c  
 ; Sequence 290, Application US/09924400  
 ; Patent No. US20020165371A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Fridakis, Tony N.  
 ; APPLICANT: Reed, Steven G.  
 ; APPLICANT: Smith, John M.  
 ; APPLICANT: Misher, Linda E.  
 ; APPLICANT: Dillon, Davin C.  
 ; APPLICANT: Retter, Marc W.  
 ; APPLICANT: Wang, Aijun  
 ; APPLICANT: Skeiky, Yasir A. W.  
 ; APPLICANT: Harlocker, Susan L.  
 ; APPLICANT: Day, Craig H.  
 ; APPLICANT: Li, Samuel X.  
 ; APPLICANT: Deng, Ta  
 ; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY  
 ; TITRE OF INVENTION: AND DIAGNOSIS OF BREAST CANCER  
 ; FILE REFERENCE: 210121.419C12  
 ; CURRENT APPLICATION NUMBER: US/09/924.400  
 ; CURRENT FILING DATE: 2001-08-07  
 ; NUMBER OF SEQ ID NOS: 340  
 ; SOFTWARE: FastSeq for Windows Version 4.0  
 ; SEQ ID NO 290  
 ; LENGTH: 1646  
 ; TYPE: DNA  
 ; ORGANISM: Homo sapiens  
 US-09-924-400-290

Query Match  
 Best Local Similarity 50.8%; Pred. No. 0.74; Length 1646;  
 Matches 90; Conservative 0; Mismatches 87; Indels 0; Gaps 0;

QY 240 AGAATACGAGTACATTAACCTCTGGGTAGTGAATGTTGATTCGTCATTAACAGTGC 299



Db 1165 AAATTAACAGGCTTCAGATTATCTGGCTTCATATATATTTCTTTAAAGAAA 1106  
QY 300 TTGAACCCCAATTCTCTATATCTGACCAAGACCAATTTAAAGAAATGATTCATCGGT 359  
Db 1105 ATATCAACCCATGTGTCATGCACTGTTTCAAGCATTTAAATAGAGGTAAACCCCTT 1046  
QY 360 TTGGCATTAACAGCAAGAAATCTATGACAGCAAGATATCAGAAAACATAT 416  
Db 1045 TCGAAATTAATACAGAAAGAAATGATTCATTTATGCAATAAAAATTAATATATAT 989

## RESULT 15

US-09-810-936-290/c  
; Sequence 290, Application US/09810936  
; Patent No. US20020068285A1  
; GENERAL INFORMATION:  
; APPLICANT: Fridakis, Tony N.  
; APPLICANT: Reed, Steven G.  
; APPLICANT: Smith, John M.  
; APPLICANT: Misher, Linda E.  
; APPLICANT: Dillon, Davin C.  
; APPLICANT: Retter, Marc W.  
; APPLICANT: Wang, Aijun  
; APPLICANT: Skelky, Yasir A.W.  
; APPLICANT: Harlocker, Susan L.  
; APPLICANT: Day, Craig H.  
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE  
; FILE OF INVENTION: THERAPY AND DIAGNOSIS OF BREAST CANCER  
; FILE REFERENCE: 210121.419C11  
; CURRENT APPLICATION NUMBER: US/09/810,936  
; CURRENT FILING DATE: 2001-03-16  
; NUMBER OF SEQ. ID NOS: 334  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 290  
; LENGTH: 1646  
; TYPE: DNA  
; ORGANISM: Homo sapien  
US-09-810-936-290

## Query Match

Best Local Similarity 8.0%; Score 37.8; DB 10; Length 1646;  
Matches 90; Conservative 0; Mismatches 87; Indels 0; Gaps 0;

QY 240 AGAATACAGGTACATTAATCTTGGGTAGTGTGTTATCTGCAATTAACAGTGC 299  
Db 1165 AAATTAACAGGCTTCAGATTATCTGGCTTCATATATATTTCTTTAAAGAAA 1106  
300 TTGAACCCCAATTCTCTATATCTGACCAAGACCAATTTAAAGAAATGATTCATCGGT 359  
Db 1105 ATATCAACCCATGTGTCATGCACTGTTTCAAGCATTTAAATAGAGGTAAACCCCTT 1046  
QY 360 TTGGCATTAACAGCAAGAAATCTATGACAGCAAGATATCAGAAAACATAT 416  
Db 1045 TCGAAATTAATACAGAAAGAAATGATTCATTTATGCAATAAAAATTAATATATAT 989

Search completed: February 3, 2003, 14:20:03  
Job time : 59 secs

GenCore version 5.1.3  
Copyright (c) 1993 - 2003 Compugen Ltd.

OM protein - protein search, using sw model

Run on: February 3, 2003, 13:01:52 ; Search time 60 Seconds  
(without alignments)  
348.672 Million cell updates/sec

Title: US-10-049-568-2

Perfect score: 826  
Sequence: 1 AQYVAIFLGINIAFIIL.....HMLHSGKCKGCHRCRLHS 157

Scoring table: BL0SUM62  
Gapop 10.0 , Gapext 0.5

Searched: 908470 seqs, 133250620 residues

1 number of hits satisfying chosen parameters: 908470

Minimum DB seq length: 0  
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Database :

A\_Geneseq\_101002.\*  
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17: /SID2/gcgdata/geneseq/geneseq-emb1/AA1996.DAT.\*  
18: /SID2/gcgdata/geneseq/geneseq-emb1/AA1997.DAT.\*  
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20: /SID2/gcgdata/geneseq/geneseq-emb1/AA1999.DAT.\*  
21: /SID2/gcgdata/geneseq/geneseq-emb1/AA2000.DAT.\*  
22: /SID2/gcgdata/geneseq/geneseq-emb1/AA2001.DAT.\*  
23: /SID2/gcgdata/geneseq/geneseq-emb1/AA2002.DAT.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	826	100.0	157	22	AA1980.DAT.*
2	638	77.2	188	22	AA1981.DAT.*
3	638	77.2	209	22	AA1982.DAT.*
4	638	77.2	396	21	AA1983.DAT.*
5	638	77.2	396	22	AA1984.DAT.*
6	638	77.2	722	20	AA1985.DAT.*
7	638	77.2	757	20	AA1986.DAT.*
8	632	76.5	176	22	AA1987.DAT.*
9	632	76.5	176	22	AA1988.DAT.*
10	632	76.5	176	22	AA1989.DAT.*

Result No.	Score	Query Match	Length	ID	Description
11	632	76.5	176	22	AA1990.DAT.*
12	632	76.5	176	22	AA1991.DAT.*
13	632	76.5	176	22	AA1992.DAT.*
14	632	76.5	176	22	AA1993.DAT.*
15	632	76.5	176	22	AA1994.DAT.*
16	586.5	71.0	140	21	AA1995.DAT.*
17	392.5	47.5	355	22	AA1996.DAT.*
18	392.5	47.5	355	22	AA1997.DAT.*
19	392.5	47.5	491	23	AA1998.DAT.*
20	392.5	47.5	515	23	AA1999.DAT.*
21	392.5	47.5	610	23	AA2000.DAT.*
22	392.5	47.5	713	23	AA2001.DAT.*
23	392.5	47.5	730	23	AA2002.DAT.*
24	392.5	47.5	737	23	AA2003.DAT.*
25	392.5	47.5	754	23	AA2004.DAT.*
26	351	42.5	108	23	AA2005.DAT.*
27	349	42.3	107	23	AA2006.DAT.*
28	349	42.3	109	23	AA2007.DAT.*
29	244	29.5	327	22	AA2008.DAT.*
30	224.5	27.2	334	22	AA2009.DAT.*
31	224.5	27.2	334	22	AA2010.DAT.*
32	212.5	25.7	359	22	AA2011.DAT.*
33	212.5	25.7	359	22	AA2012.DAT.*
34	207.5	25.1	1115	23	AA2013.DAT.*
35	139.5	16.9	620	14	AA2014.DAT.*
36	139.5	16.9	634	14	AA2015.DAT.*
37	139.5	16.9	689	14	AA2016.DAT.*
38	139.5	16.9	690	14	AA2017.DAT.*
39	139.5	16.9	692	11	AA2018.DAT.*
40	139.5	16.9	695	14	AA2019.DAT.*
41	139.5	16.9	695	14	AA2020.DAT.*
42	139.5	16.9	695	14	AA2021.DAT.*
43	139.5	16.9	696	14	AA2022.DAT.*
44	139.5	16.9	696	14	AA2023.DAT.*
45	139.5	16.9	696	14	AA2024.DAT.*

## ALIGNMENTS

RESULT 1	AA1980.DAT.*
ID	AA1980.DAT.*
AC	AA1980.DAT.*
XX	AA1980.DAT.*
DT	23-MAY-2001 (first entry)
XX	AA1980.DAT.*
DE	Human HGR101 G-protein coupled receptor.
XX	AA1980.DAT.*
KW	Human; HGR101; G-protein coupled receptor; infection; pain; cancer; diabetes; obesity; eating disorder; asthma; Parkinson's disease; hypotension; osteoporosis; myocardial infarction; migraine; allergy; psychotic disorder; neurological disorder; dyskinesia; vaccine.
XX	AA1980.DAT.*
OS	Homo sapiens.
XX	AA1980.DAT.*
FN	W0200114548-A2.
XX	AA1980.DAT.*
PD	01-MAR-2001.
XX	AA1980.DAT.*
PF	09-AUG-2000; 2000MO-EP07723.
XX	AA1980.DAT.*
PR	19-AUG-1999; 99EP-0116345.
XX	AA1980.DAT.*
PA	(MERRE) MERCK PATENT GMBH.
XX	AA1980.DAT.*
PI	Duecker K;
XX	AA1980.DAT.*
DR	WPI; 2001-226617/23.
XX	AA1980.DAT.*
DE	N-PSDB; AAF28059.
XX	AA1980.DAT.*
PT	Novel G-coupled protein receptor, HGR101 useful for treating diseases

PT such as microbial infections, cancers, obesity, asthma, diabetes,  
PT hypotension, osteoporosis, myocardial infarction, stroke, ulcer,  
PT allergy -  
XX  
XX Claim 1; Page 36; 36pp; English.  
XX  
CC The present invention provides the protein and coding sequences for a  
CC novel human G-protein coupled receptor, designated HGR101. The sequences  
CC are useful in the diagnosis, prevention and treatment of diseases  
CC including infections, pain, cancer, diabetes, anorexia, bulimia, asthma,  
CC Parkinson's disease, acute heart failure, hypotension, hypertension,  
CC urinary retention, osteoporosis, angina pectoris, myocardial infarction,  
CC stroke, ulcers, allergies, benign prostatic hypertrophy, migraine,  
CC vomiting, psychotic and neurological disorders such as anxiety,  
CC schizophrenia, manic depression, depression, delirium, dementia and  
CC severe mental retardation, and dyskinesias including Huntington's disease  
CC and Gilles de la Tourette's syndrome. The present sequence is the HGR101  
CC protein.  
XX  
XX Sequence 157 AA;  
Query Match 100.0%; Score 826; DB 22; Length 157;  
Best Local Similarity 100.0%; Pred. No. 1e-88;  
Matches 157; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 AQTISVAIFGGINLAATITIVFSTGSMFYVHOSAITATINQVKEMILAKRFFIYF 60  
DB 1 AQTISVAIFGGINLAATITIVFSTGSMFYVHOSAITATINQVKEMILAKRFFIYF 60  
QY 61 TDAICWPIPIFAKPLSLLOVEIPGTITSMVWVIGSAINSLNPIILYTLTPRPFKEMIRF 120  
DB 61 TDAICWPIPIFAKPLSLLOVEIPGTITSMVWVIGSAINSLNPIILYTLTPRPFKEMIRF 120  
QY 121 WHNTRKSKMDSKIGIRKMLHSSGKCGHCRCHLS 157  
DB 121 WHNTRKSKMDSKIGIRKMLHSSGKCGHCRCHLS 157  
RESULT 2  
AAM99945 standard; Protein; 188 AA.  
XX  
XX AAM99945;  
XX  
XX 04-JAN-2002 (first entry)  
XX  
DE Human expressed polypeptide SEQ ID NO 69.  
XX  
XX Human; nootropic; neuroprotective; cytosolic; dermatological; virucide;  
XX immunosuppressive; antiinflammatory; anti-HIV; antibacterial; vulnerary;  
XX antiparkinsonian; antisticking; antianemic; antiarthritic; cancer;  
XX antileukemic; hepatocytic; cerebroprotective; antiinflammatory;  
XX antiallergic; antidiabetic; antitumor; anticonvulsant; antifungal;  
XX antiparasitic; cardiac; immune disorder; cardiovascular disorder;  
XX neurological disease; infection; nephrotropic; gene therapy; vaccine.  
XX  
XX Homo sapiens.  
XX  
XX WO200155387-A1.  
XX  
XX 02-AUG-2001.  
XX  
XX 17-JAN-2001; 2001MO-US01110.  
XX  
XX 31-JAN-2000; 2000US-0179065.  
XX 04-FEB-2000; 2000US-0180628.  
XX 24-FEB-2000; 2000US-0184664.  
XX 02-MAR-2000; 2000US-0186350.  
XX 16-MAR-2000; 2000US-0189874.  
XX 17-MAR-2000; 2000US-0190076.  
XX 18-APR-2000; 2000US-0198123.  
XX 19-MAY-2000; 2000US-0205515.  
XX 07-JUN-2000; 2000US-0209467.

PR 28-JUN-2000; 2000US-0214886.  
PR 30-JUN-2000; 2000US-0215135.  
PR 07-JUL-2000; 2000US-0216647.  
PR 07-JUL-2000; 2000US-0216880.  
PR 11-JUL-2000; 2000US-0217487.  
PR 11-JUL-2000; 2000US-0217496.  
PR 14-JUL-2000; 2000US-0218290.  
PR 26-JUL-2000; 2000US-0220963.  
PR 26-JUL-2000; 2000US-0220964.  
PR 14-AUG-2000; 2000US-0224518.  
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PR 14-AUG-2000; 2000US-0225266.  
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PR 14-AUG-2000; 2000US-0225270.  
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PR 14-AUG-2000; 2000US-0225757.  
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PR 14-AUG-2000; 2000US-0225759.  
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PR 22-AUG-2000; 2000US-0227182.  
PR 23-AUG-2000; 2000US-0227009.  
PR 30-AUG-2000; 2000US-0228924.  
PR 01-SEP-2000; 2000US-0229287.  
PR 01-SEP-2000; 2000US-0229343.  
PR 01-SEP-2000; 2000US-0229344.  
PR 01-SEP-2000; 2000US-0229345.  
PR 05-SEP-2000; 2000US-0229509.  
PR 05-SEP-2000; 2000US-0229513.  
PR 06-SEP-2000; 2000US-0230437.  
PR 06-SEP-2000; 2000US-0230438.  
PR 08-SEP-2000; 2000US-0231242.  
PR 08-SEP-2000; 2000US-0231243.  
PR 08-SEP-2000; 2000US-0231244.  
PR 08-SEP-2000; 2000US-0231413.  
PR 08-SEP-2000; 2000US-0231414.  
PR 08-SEP-2000; 2000US-0232080.  
PR 08-SEP-2000; 2000US-0232081.  
PR 12-SEP-2000; 2000US-0232397.  
PR 14-SEP-2000; 2000US-0232398.  
PR 14-SEP-2000; 2000US-0232399.  
PR 14-SEP-2000; 2000US-0232400.  
PR 14-SEP-2000; 2000US-0232401.  
PR 14-SEP-2000; 2000US-0232403.  
PR 14-SEP-2000; 2000US-0233064.  
PR 14-SEP-2000; 2000US-0233065.  
PR 21-SEP-2000; 2000US-0234223.  
PR 21-SEP-2000; 2000US-0234274.  
PR 25-SEP-2000; 2000US-0234997.  
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PR 26-SEP-2000; 2000US-0235484.  
PR 27-SEP-2000; 2000US-0235834.  
PR 27-SEP-2000; 2000US-0235836.  
PR 29-SEP-2000; 2000US-0236327.  
PR 29-SEP-2000; 2000US-0236367.  
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PR 29-SEP-2000; 2000US-0236369.  
PR 29-SEP-2000; 2000US-0236370.  
PR 02-OCT-2000; 2000US-0236802.  
PR 02-OCT-2000; 2000US-0237037.  
PR 02-OCT-2000; 2000US-0237038.  
PR 02-OCT-2000; 2000US-0237039.  
PR 02-OCT-2000; 2000US-0237040.  
PR 13-OCT-2000; 2000US-0239335.  
PR 13-OCT-2000; 2000US-0239337.  
PR 20-OCT-2000; 2000US-0240960.  
PR 20-OCT-2000; 2000US-0241221.  
PR 20-OCT-2000; 2000US-0241785.

PR 20-OCT-2000; 2000US-0241786.  
 PR 20-OCT-2000; 2000US-0241787.  
 PR 20-OCT-2000; 2000US-0241808.  
 PR 20-OCT-2000; 2000US-0241809.  
 PR 20-OCT-2000; 2000US-0241825.  
 PR 01-NOV-2000; 2000US-0244617.  
 PR 08-NOV-2000; 2000US-0246474.  
 PR 08-NOV-2000; 2000US-0246475.  
 PR 08-NOV-2000; 2000US-0246476.  
 PR 08-NOV-2000; 2000US-0246477.  
 PR 08-NOV-2000; 2000US-0246478.  
 PR 08-NOV-2000; 2000US-0246522.  
 PR 08-NOV-2000; 2000US-0246524.  
 PR 08-NOV-2000; 2000US-0246525.  
 PR 08-NOV-2000; 2000US-0246526.  
 PR 08-NOV-2000; 2000US-0246527.  
 PR 08-NOV-2000; 2000US-0246528.  
 PR 08-NOV-2000; 2000US-0246532.  
 PR 08-NOV-2000; 2000US-0246609.  
 PR 08-NOV-2000; 2000US-0246610.  
 PR 08-NOV-2000; 2000US-0246611.  
 PR 08-NOV-2000; 2000US-0246613.  
 PR 17-NOV-2000; 2000US-0249207.  
 PR 17-NOV-2000; 2000US-0249208.  
 PR 17-NOV-2000; 2000US-0249209.  
 PR 17-NOV-2000; 2000US-0249210.  
 PR 17-NOV-2000; 2000US-0249211.  
 PR 17-NOV-2000; 2000US-0249212.  
 PR 17-NOV-2000; 2000US-0249213.  
 PR 17-NOV-2000; 2000US-0249214.  
 PR 17-NOV-2000; 2000US-0249215.  
 PR 17-NOV-2000; 2000US-0249216.  
 PR 17-NOV-2000; 2000US-0249217.  
 PR 17-NOV-2000; 2000US-0249218.  
 PR 17-NOV-2000; 2000US-0249244.  
 PR 17-NOV-2000; 2000US-0249245.  
 PR 17-NOV-2000; 2000US-0249254.  
 PR 17-NOV-2000; 2000US-0249265.  
 PR 17-NOV-2000; 2000US-0249267.  
 PR 17-NOV-2000; 2000US-0249297.  
 PR 17-NOV-2000; 2000US-0249299.  
 PR 01-DEC-2000; 2000US-0250160.  
 PR 01-DEC-2000; 2000US-0250391.  
 PR 05-DEC-2000; 2000US-0251030.  
 PR 05-DEC-2000; 2000US-0251988.  
 PR 06-DEC-2000; 2000US-0256719.  
 PR 08-DEC-2000; 2000US-0251479.  
 PR 08-DEC-2000; 2000US-0251856.  
 PR 08-DEC-2000; 2000US-0251858.  
 PR 08-DEC-2000; 2000US-0251869.  
 PR 08-DEC-2000; 2000US-0251989.  
 PR 11-DEC-2000; 2000US-0254097.  
 PR 05-JAN-2001; 2001US-0259678.  
 PA (HUMA-) HUMAN GENOME SCI INC.  
 XX  
 XX Rosen CA, Barash SC, Ruben SM;  
 PT WPI; 2001-465573/50.  
 DR N-PSDB; AA199557.  
 XX  
 XX Isolated digestive system associated polypeptide for treating,  
 PT preventing and/or prognosing disorders related to the digestive system  
 PT including digestive system cancers and also for testing and detection  
 PT e.g. diagnosis -  
 XX  
 XX Claim 11, SEQ ID NO 69; 509pp + Sequence Listing; English.  
 CC The invention relates to novel genes (AA199548-AA199604) and proteins  
 CC (AA199936-AA199984) useful for preventing, treating or ameliorating  
 CC medical conditions e.g. by protein or gene therapy. The genes are  
 CC isolated from a range of human tissues disclosed in the specification.

CC The nucleic acids, proteins, antibodies and (ant)agonists are useful  
 CC in the diagnosis, treatment and prevention of: (a) cancer, e.g. breast  
 CC and ovarian cancer and other cancers of the adrenal gland, bone, bone  
 CC marrow, breast, gastrointestinal tract, liver, lung, or urogenital;  
 CC (b) immune disorders e.g. Addison's disease, allergies, autoimmune  
 CC haemolytic anaemia, autoimmune thyroiditis, diabetes mellitus, Crohn's  
 CC disease, multiple sclerosis, rheumatoid arthritis and ulcerative  
 CC colitis; (c) cardiovascular disorders such as myocardial ischaemia;  
 CC (d) wound healing; (e) neurological diseases e.g. cerebral anoxia and  
 CC epilepsy; and (f) infectious diseases such as viral, bacterial, fungal  
 CC and parasitic infections.  
 CC Note: The sequence data for this patent did not form part of the  
 CC printed specification, but was obtained in electronic format directly  
 CC from WIPO at ftp.wipo.int/pub/published\_pct\_sequences.  
 XX  
 SQ Sequence 188 AA;  
 Query Match 77.2%; Score 638; DB 22; Length 188;  
 Best Local Similarity 94.8%; Pred. No. 1,4e-66;  
 Matches 127; Conservative 1; Mismatches 6; Indels 0; Gaps 0;  
 QY 1 AQTYSVAIFGIMLAFFIIIVSYSGMFSYHQSAITATEIRNOVKEMILAKRFFFIIVF 60  
 DB 7 AQTYSVAIFGIMLAFFIIIVSYSGMFSYHQSAITATEIRNOVKEMILAKRFFFIIVF 66  
 QY 61 TDLACWPIFFVAKPSLLQVEIPGTTSMWVGYSAINSLNPILYTLTRPFKMIHRF 120  
 DB 67 TDLACWPIFFVAKPSLLQVEIPGTTSMWVGYSAINSLNPILYTLTRPFKMIHRF 126  
 QY 121 MHNYSRQKSMDSKG 134  
 DB 127 WYNYRQKSMDSKG 140  
 RESULT 3  
 AAU87243  
 ID AAU87243 standard; Protein; 209 AA.  
 XX  
 AC AAU87243;  
 XX  
 DT 05-JUN-2002 (first entry)  
 XX  
 XX Novel central nervous system protein #153.  
 DE  
 XX  
 XX Central nervous system; CNS; autoimmune disease; rheumatoid arthritis;  
 KW hyperproliferative disorder; neoplasm; cardiovascular disorder;  
 KW cardiac arrest; cerebrovascular disorder; ischaemia; angiogenesis;  
 KW nervous system disorder; Alzheimer's disease; AIDS; ocular disorder;  
 KW acquired immunodeficiency virus; dysphagia; gastrointestinal disorder;  
 KW adenocarcinoma; reproductive system disorder; testicular feminisation;  
 KW endocrine disorder; diabetes; cancer; leukaemia; neovascularisation;  
 KW respiratory disorder; renal disorder; kidney failure; blood disorder;  
 KW myocardial infarction; wound healing; cell proliferation; skin aging;  
 KW food additive; food preservative; gene therapy.  
 KW  
 XX  
 OS Homo sapiens.  
 XX  
 XX  
 XX WO200155318-A2.  
 XX  
 PD 02-AUG-2001.  
 XX  
 XX  
 PF 17-JAN-2001; 2001WO-US01332.  
 XX  
 XX 31-JAN-2000; 2000US-0179065.  
 PR 04-FEB-2000; 2000US-0180628.  
 PR 24-FEB-2000; 2000US-0184664.  
 PR 02-MAR-2000; 2000US-0186350.  
 PR 16-MAR-2000; 2000US-0189874.  
 PR 17-MAR-2000; 2000US-0190076.  
 PR 18-APR-2000; 2000US-0198123.  
 PR 19-MAY-2000; 2000US-0205515.  
 PR 07-JUN-2000; 2000US-0209467.  
 PR 28-JUN-2000; 2000US-0214886.

PR 30-JUN-2000; 2000US-0215135.  
 PR 07-JUL-2000; 2000US-0216647.  
 PR 07-JUL-2000; 2000US-0216880.  
 PR 11-JUL-2000; 2000US-0217487.  
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 PR 14-JUL-2000; 2000US-0218299.  
 PR 26-JUL-2000; 2000US-0220963.  
 PR 14-AUG-2000; 2000US-0224518.  
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 PR 14-AUG-2000; 2000US-0225214.  
 PR 14-AUG-2000; 2000US-0225266.  
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 PR 14-AUG-2000; 2000US-0225757.  
 PR 14-AUG-2000; 2000US-0225758.  
 PR 14-AUG-2000; 2000US-0225759.  
 PR 18-AUG-2000; 2000US-0226279.  
 PR 22-AUG-2000; 2000US-0226681.  
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 PR 22-AUG-2000; 2000US-0227182.  
 PR 23-AUG-2000; 2000US-0227009.  
 PR 30-AUG-2000; 2000US-0228924.  
 PR 01-SEP-2000; 2000US-0229287.  
 PR 01-SEP-2000; 2000US-0229343.  
 PR 01-SEP-2000; 2000US-0229344.  
 PR 01-SEP-2000; 2000US-0229345.  
 PR 05-SEP-2000; 2000US-0229509.  
 PR 05-SEP-2000; 2000US-0229513.  
 PR 06-SEP-2000; 2000US-0230437.  
 PR 06-SEP-2000; 2000US-0230438.  
 PR 08-SEP-2000; 2000US-0231242.  
 PR 08-SEP-2000; 2000US-0231243.  
 PR 08-SEP-2000; 2000US-0231244.  
 PR 08-SEP-2000; 2000US-0231245.  
 PR 08-SEP-2000; 2000US-0231413.  
 PR 08-SEP-2000; 2000US-0231414.  
 PR 08-SEP-2000; 2000US-0232080.  
 PR 08-SEP-2000; 2000US-0232081.  
 PR 12-SEP-2000; 2000US-0231968.  
 PR 14-SEP-2000; 2000US-0232397.  
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 PR 14-SEP-2000; 2000US-0232399.  
 PR 14-SEP-2000; 2000US-0232400.  
 PR 14-SEP-2000; 2000US-0232401.  
 PR 14-SEP-2000; 2000US-0233063.  
 PR 14-SEP-2000; 2000US-0233064.  
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 PR 21-SEP-2000; 2000US-0234274.  
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 PR 25-SEP-2000; 2000US-0234998.  
 PR 26-SEP-2000; 2000US-0235484.  
 PR 27-SEP-2000; 2000US-0235634.  
 PR 27-SEP-2000; 2000US-0235636.  
 PR 29-SEP-2000; 2000US-0236327.  
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 PR 29-SEP-2000; 2000US-0236368.  
 PR 29-SEP-2000; 2000US-0236369.  
 PR 29-SEP-2000; 2000US-0236370.  
 PR 02-OCT-2000; 2000US-0236802.  
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 PR 02-OCT-2000; 2000US-0237039.  
 PR 02-OCT-2000; 2000US-0237039.  
 PR 02-OCT-2000; 2000US-0237039.  
 PR 13-OCT-2000; 2000US-0239935.  
 PR 13-OCT-2000; 2000US-0239937.  
 PR 20-OCT-2000; 2000US-0240960.  
 PR 20-OCT-2000; 2000US-0241221.  
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 PR 20-OCT-2000; 2000US-0241786.

PR 20-OCT-2000; 2000US-0241787.  
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 PR 08-NOV-2000; 2000US-0246474.  
 PR 08-NOV-2000; 2000US-0246475.  
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 PR 08-NOV-2000; 2000US-0246525.  
 PR 08-NOV-2000; 2000US-0246526.  
 PR 08-NOV-2000; 2000US-0246527.  
 PR 08-NOV-2000; 2000US-0246528.  
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 PR 08-NOV-2000; 2000US-0246609.  
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 PR 08-NOV-2000; 2000US-0246611.  
 PR 08-NOV-2000; 2000US-0246613.  
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 PR 17-NOV-2000; 2000US-0249208.  
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 PR 17-NOV-2000; 2000US-0249212.  
 PR 17-NOV-2000; 2000US-0249213.  
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 PR 17-NOV-2000; 2000US-0249215.  
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 PR 17-NOV-2000; 2000US-0249265.  
 PR 17-NOV-2000; 2000US-0249297.  
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 PR 17-NOV-2000; 2000US-0249300.  
 PR 01-DEC-2000; 2000US-0250160.  
 PR 01-DEC-2000; 2000US-0250391.  
 PR 05-DEC-2000; 2000US-0251030.  
 PR 05-DEC-2000; 2000US-0251988.  
 PR 05-DEC-2000; 2000US-0256719.  
 PR 06-DEC-2000; 2000US-0251479.  
 PR 08-DEC-2000; 2000US-0251856.  
 PR 08-DEC-2000; 2000US-0251868.  
 PR 08-DEC-2000; 2000US-0251869.  
 PR 08-DEC-2000; 2000US-0251989.  
 PR 08-DEC-2000; 2000US-0251990.  
 PR 11-DEC-2000; 2000US-0254097.  
 PR 05-JAN-2001; 2001US-0259678.  
 (HUMA-) HUMAN GENOME SCT INC.  
 PA  
 XX  
 PA  
 XX  
 PI  
 PI  
 XX  
 DR  
 DR  
 N-PEDB; ABK43573.  
 WPI, 2001-581633/65.  
 New isolated nucleic acid encoding a protein for diagnosing,  
 preventing, treating or ameliorating medical conditions and used as  
 food additives or preservatives -  
 PT  
 PT  
 XX  
 XX  
 PS  
 PS  
 Claim 9; SEQ ID No 761; 837bp; English.  
 The invention describes an isolated nucleic acid molecule (I) encoding a  
 novel central nervous system protein. (I) and polypeptides (II) encoded  
 by (I), are used to treat a medical conditions and in diagnosis of a  
 pathological condition. Disorders which are diagnosed or treated include  
 autoimmune diseases e.g. rheumatoid arthritis, hyperproliferative  
 disorders e.g. neoplasms of the breast or liver, cardiovascular disorders

CC e.g. cardiac arrest, cerebrovascular disorders e.g. cerebral ischaemia,  
CC angiogenesis, nervous system disorders e.g. Alzheimer's disease and  
CC amyotrophic lateral sclerosis, infections caused by bacteria, viruses  
CC e.g. Acquired immunodeficiency virus (AIDS) and fungi, ocular disorders  
CC e.g. corneal infection, gastrointestinal disorders e.g. dysphagia,  
CC adenocarcinomas and irritable bowel syndrome, reproductive system  
CC disorders e.g. testicular feminisation, endocrine disorders e.g. diabetes  
CC and pituitary dwarfism, cancers and disorders at the cellular level e.g.  
CC leukaemia, disorders involving neovascularisation e.g. malignancies,  
CC respiratory disorders e.g. nonallergic rhinitis, renal disorders e.g.  
CC acute kidney failure and blood related disorders e.g. myocardial  
CC infarction. The polypeptides can also be used to aid wound healing and  
CC epithelial cell proliferation, to prevent skin aging due to sunburn, to  
CC maintain organs before transplantation, for supporting cell culture of  
CC primary tissues, to regenerate tissues and in chemotaxis. The  
CC polypeptides can also be used as a food additive or preservative to  
CC increase or decrease storage capabilities, fat content, lipid, protein,

Query Match 77.2%; Score 638; DB 22; Length 209;

Best Local Similarity 94.8%; Pred. No. 1.7e-66; Mismatches 6; Indels 0; Gaps 0;

Matches 127; Conservative 1; Mismatches 6; Indels 0; Gaps 0;

QY 1 AQIYVAIFLGINLAFFIIVSYGSMFYVHQSATITATEIRNQVKEMILAKRFFIIVF 60

DB 28 AQIYVAIFLGINLAFFIIVSYGSMFYVHQSATITATEIRNQVKEMILAKRFFIIVF 87

QY 61 TDALCMPIPFVAKPESLLOVEIPGTTTSWVYIGSAINSANPLIYTLTTRPPKEMIHFR 120

DB 88 TDALCMPIPFVAKPESLLOVEIPGTTTSWVYIGSAINSANPLIYTLTTRPPKEMIHFR 147

QY 121 WNNYRQRKSMDSKG 134

DB 148 WNNYRQRKSMDSKG 161

#### RESULT 4

AA57286

ID AA57286 standard; Protein: 396 AA.

AC AA57286;

DT 05-JUN-2000 (first entry)

DE Human GPCR protein (HGPRP) sequence (clone ID 2488822).

XX Human; G protein coupled protein receptor; HGPRP; cell proliferation;

KM neurological; immune disorder; cyclostatic; anti-arteriosclerotic;

KM anti-atherosclerotic; hepatotropic; antiinflammatory; virucide; leukemia;

KM immunomodulatory; anemia; asthma; gastrointestinal; anti-epileptic;

KM anti-Alzheimer's; anti-Parkinsonian; gene therapy.

XX Homo sapiens.

OS Homo sapiens.

PN MO200015793-A2.

PD 23-MAR-2000.

PF 17-SEP-1999; 99WO-US20958.

PR 17-SEP-1998; 98US-0156513.

PA (INCY-) INCYTE PHARM INC.

PI Bandnan O, Lal P, Tang YT, Corley NC, Guegler KJ, Gorgone GA,

PI Baughn MR;

DR WPI; 2000-271432/23.

DR N-PSDB; AA290524.

XX Human G protein coupled protein receptor peptides useful for the

PT prevention, diagnosis and treatment of cell proliferative, neurological

PT and immune disorders -

XX

PS Claim 1; Page 62-63; 71pp; English.

XX The invention provides human G protein coupled protein receptor (HGPRP)

CC polypeptides and polynucleotides encoding them. The polypeptides can be

CC produced by standard recombinant methodology. The polynucleotides and

CC polypeptides may be used in the prevention, treatment and diagnosis of

CC diseases associated with their inappropriate expression. Diseases that

CC can be treated are cell proliferative disorders (e.g. arteriosclerosis,

CC atherosclerosis and hepatitis), cancers (e.g. leukemia, melanomas and

CC adenocarcinoma), immune disorders (e.g. anemia, asthma and Crohn's

CC disease) and neurological disorders (e.g. epilepsy, Alzheimer's disease

CC and Parkinson's disease). The anti-HGPRP antibodies may also be used as

CC diagnostic agents for detecting the presence of HGPRP polypeptides in

CC samples (e.g. by enzyme linked immunosorbent assay (ELISA)). Sequences

CC AA57283-288 represent the HGPRP polypeptides.

SQ Sequence 396 AA;

Query Match 77.2%; Score 638; DB 21; Length 396;

Best Local Similarity 94.8%; Pred. No. 3.8e-66; Mismatches 6; Indels 0; Gaps 0;

Matches 127; Conservative 1; Mismatches 6; Indels 0; Gaps 0;

QY 1 AQIYVAIFLGINLAFFIIVSYGSMFYVHQSATITATEIRNQVKEMILAKRFFIIVF 60

DB 215 AQIYVAIFLGINLAFFIIVSYGSMFYVHQSATITATEIRNQVKEMILAKRFFIIVF 274

QY 61 TDALCMPIPFVAKPESLLOVEIPGTTTSWVYIGSAINSANPLIYTLTTRPPKEMIHFR 120

DB 275 TDALCMPIPFVAKPESLLOVEIPGTTTSWVYIGSAINSANPLIYTLTTRPPKEMIHFR 334

QY 121 WNNYRQRKSMDSKG 134

DB 335 WNNYRQRKSMDSKG 348

#### RESULT 5

AAE02498

ID AAE02498 standard; Protein: 396 AA.

AC AAE02498;

DT 10-AUG-2001 (first entry)

DE Human CON222 G protein-coupled receptor protein.

XX Human; G protein-coupled receptor; GPCR; CON222 protein; schizophrenia;

KM neurologic; nocotropic; neuroprotective; bipolar disease; psychotropic;

KM neurological disorder; psychiatric disease; neurosis; anxiety; neuritis;

KM attention deficit hyperactivity disorder; neuropsychia; senile dementia;

KM affective disorder; neuropathy; Alzheimer's disease; Parkinson's disease;

KM depression; migraine; genetic screening.

XX Homo sapiens.

OS Homo sapiens.

PN AAE02498

PD 42..65

PF 66..78

PR /label= Intracellular domain

PA /note= "First IC loop"

PI /label= Transmembrane\_domain\_(2TM)

PI /label= Extracellular\_domain

PI /note= "First EC loop"

PI /label= Transmembrane\_domain\_(3TM)

PI /label= Intracellular domain

PI /note= "Second IC loop"

PI /label= Transmembrane\_domain\_(4TM)

PI /label= Transmembrane\_domain\_(4TM)

PI 189..216

FT	/label= Extracellular domain
FT	/note= "Second EC loop"
FT	217..241
FT	/label= Transmembrane_domain_(5TM)
FT	242..267
FT	/label= Intracellular domain
FT	/note= "Third IC Loop"
FT	268..290
FT	/label= Transmembrane_domain_(6TM)
FT	291..300
FT	/label= Extracellular_domain
FT	/note= "Third EC loop"
FT	301..320
FT	/label= Transmembrane_domain_(7TM)
PX	
PN	W0200131014-A2.
XX	
PD	03-MAY-2001.
XX	
XX	27-OCT-2000; 2000WO-US29601.
PR	27-OCT-1999; 99US-0427653.
PR	27-OCT-1999; 99US-0427859.
PR	27-OCT-1999; 99US-0428020.
PR	27-OCT-1999; 99US-0428114.
PR	28-OCT-1999; 99US-0429517.
PR	28-OCT-1999; 99US-0429555.
PR	28-OCT-1999; 99US-0429676.
PR	28-OCT-1999; 99US-0429695.
PR	03-DEC-1999; 99US-0454199.
PR	12-JAN-2000; 2000US-0481794.
PA	(PHAA ) PHARMACIA & UPJOHN CO.
PI	Vogell G, Wood LS, Merchant K;
XX	
XX	WPI; 2001-338653/34.
DR	N-PSDB; AAD06507.
PT	Seven transmembrane receptor polypeptides and polynucleotides, useful
PT	for treating neurological or psychiatric disorders, e.g. schizophrenia,
PT	as well as for identifying compounds useful for treating schizophrenia
PT	-
XX	
PS	Claim 1; Page 15-16; 215pp; English.
CC	The invention relates to human G protein-coupled receptor (GPCR) and
CC	their corresponding DNA molecules. GPCR is also referred as seven
CC	transmembrane receptor. G protein-coupled receptor protein is useful for
CC	treating neurological disorder, particularly schizophrenia. GPCR protein
CC	is also useful for identifying compounds useful for treating other
CC	schizophrenia. These compounds are also useful for treating other
CC	neurological and psychiatric diseases, e.g. depression, anxiety, bipolar
CC	disease, affective disorders, attention deficit hyperactivity disorder/ attention deficit disorder, epilepsy, neuritis, neurosthenia, neuropathy, neurosis, Alzheimer's disease, Parkinson's disease, migraine and senile dementia. The invention also provides genetic screening procedures that enable analysing a person's genome with respect to GPCR. The vectors are useful for the recombinant production of the GPCR s. The present sequence is human CON222 G protein-coupled receptor (GPCR) protein.
XX	
XX	Sequence 396 AA;
SQ	
Query Match	77.2%; Score 638; DB 22; Length 396;
Best Local Similarity	94.8%; Pred. No. 3.8e-66;
Matches 127; Conservative 1; Mismatches 6; Indels 0; Gaps 0	
DY	1 AQIYSVAIFGAINLAFLIIIVFSYGSMFYSHQSATATATEIRNNQYKEMILAKFFFIIVF 60
Db	215 AQIYSVAIFGINLAFLIIIVFSYGSMFYSHQSATATATEIRNNQYKEMILAKFFFIIVF 274
OY	61 TDAICMIPITVAPRLSLIOVEIRPGTISMWVVGXSINSALNPLIYLTLTRPFEMTHRF 120

Db	275	TDALCWIPFVAFKESLLQVEIPGTTSMWVIFILPINSALNPILVLTTRPPEKMIHRF	334
QY	121	WANTROKSKMSDKG	134
		:	
Db	335	WYNTRORSKMSDKG	348
RESULT 6			
AAAY42171	ID	AAAY42171 standard, Protein, 722 AA.	
XX	AC	AAAY42171;	
XX	DT	20-DEC-1999 (first entry)	
XX	DE	Human LGR7 short form protein sequence.	
XX	KW	Human, LGR4, LGR5, LGR7; G-protein coupled receptor; gene therapy;	
XX	KW	extracellular leucine rich repeat region; mapping; identification.	
XX	OS	Homo sapiens.	
XX	PM	W09948921-A1.	
XX	PD	30-SEP-1999.	
XX	PF	25-MAR-1999; 99WO-US06573.	
XX	PR	26-MAR-1998; 98US-0079501.	
XX	PA	(STRD ) UNIV IELAND STANFORD JUNIOR.	
XX	PA	(ORCA ) ORGANO NV.	
XX	P1	Huueh AJW, Hsu SY, Liang S, Van Der Spek PJ;	
XX	DR	WPI: 1999-591074/50.	
XX	DR	N-PSDB; AAZ25346.	
PT	PT	New G-protein coupled receptors, useful for identifying their own	
PS	PS	ligands -	
XX	XX	Claim 2; Fig 4; 54dp; English.	
CC	CC	The present sequence represents the human G-protein coupled receptor	
CC	CC	having extracellular leucine rich repeat regions, designated LGR7 short	
CC	CC	form. The LGR4, LGR5 and LGR7 proteins are used to identify ligands for	
CC	CC	the receptor. The polypeptides and/or polynucleotides are also useful	
CC	CC	for homologous or related genes, producing compositions that modulate	
CC	CC	the expression or function of the receptors, gene therapy, mapping	
CC	CC	functional regions of the receptors, studying associated physiological	
CC	CC	pathways, in vivo prophylactic and therapeutic purposes, as immunogens	
CC	CC	for producing antibodies, and for identifying biologically active	
CC	CC	agents. The polypeptides contain a G-protein coupled seven	
CC	CC	transmembrane region and a leucine rich repeat extracellular domain.	
CC	CC	These regions capture and facilitate optimal orientation of its ligand.	
CC	CC	The proteins are also expressed in diverse tissues.	
XX	XX		
SQ	SQ	Sequence 722 AA:	
QY	Query Match	77.2%; Score 638; DB 20; Length 722;	
	Best Local Similarity	94.8%; Pred. No. 8.3e-66;	
	Matches 127; Conservative	1; Mismatches 6; Indels 0; Gaps	0;
Db	1	AOISVAIFGILNLAFFITIVSGSMFYSVHOSATIRATEIRNOVKKEMILAKRFFIVE	60
		:	
Db	541	AOISVAIFGILNLAFFITIVSGSMFYSVHOSATIRATEIRNOVKKEMILAKRFFIVE	600
QY	61	TDALCWIPFVAFKESLLQVEIPGTTSMWVIGYSAINSAALNPILVLTTRPPEKMIHRF	120
		:	
Db	601	TDALCWIPFVAFKESLLQVEIPGTTSMWVIFILPINSALNPILVLTTRPPEKMIHRF	660
QY	121	WANTROKSKMSDKG	134
		:	

Db 661 WYNYRORXKMSDKG 674

RESULT 7

AAV42170  
ID AAV42170 standard; Protein; 757 AA.

AAV42170;

20-DEC-1999 (first entry)

Human LGR7 long form protein sequence.

Human; LGR4; LGR5; LGR7; G-protein coupled receptor; gene therapy;

extracellular leucine rich repeat region; mapping; identification.

Homo sapiens.

WO9948921-A1.

30-SEP-1999.

25-MAR-1999; 99WO-US06573.

26-MAR-1998; 98US-0079501.

(STRD ) UNITY LELAND STANFORD JUNIOR.

(ORGA ) ORGANO NV.

Hueh AJW, Hsu SY, Liang S, Van Der Spek PJ;

WPI; 1999-591074/50.

N-PDB; AA25345.

New G-protein coupled receptors, useful for identifying their own

ligands -

Claim 2; Fig 3; 54pp; English.

The present sequence represents the human G-protein coupled receptor  
having extracellular leucine rich repeat regions, designated LGR7 long  
form. The LGR4, LGR5 and LGR7 proteins are used to identify ligands for  
the receptor. The polypeptides and/or polynucleotides are also useful  
for homologous or related genes, producing compositions that modulate  
the expression or function of the receptors, gene therapy, mapping  
functional regions of the receptors, studying associated physiological  
pathways, in vivo prophylactic and therapeutic purposes, as immunogens  
for producing antibodies, and for identifying biologically active  
agents. The polypeptides contain a G-protein coupled seven  
transmembrane region and a leucine rich repeat extracellular domain.  
These regions capture and facilitate optimal orientation of its ligand.  
The proteins are also expressed in diverse tissues.

Sequence 757 AA;

Query Match 77.2%; Score 638; DB 20; Length 757;

Best Local Similarity 94.8%; Pred. No. 8, 8e-66; Indels 0; Gaps 0;

Matches 127; Conservative 1; Mismatches 6; Indels 0; Gaps 0;

1 AQTVAIFGIMIAFIIVFSYSGWFSVHOSATATATEIRNWKEMILAKREFPIVF 60

576 AQTVAIFGIMIAFIIVFSYSGWFSVHOSATATATEIRNWKEMILAKREFPIVF 635

61 TDALCWIPIPAKRLSLQVEIRGTTISWVVGSAINSAIPILYTLTRPKEMIRF 120

636 TDALCWIPIPAKRLSLQVEIRGTTISWVVGSAINSAIPILYTLTRPKEMIRF 695

121 WMYRORXKMSDKG 134

696 WMYRORXKMSDKG 709

RESULT 8

AAU87545

ID AAU87545 standard; Protein; 176 AA.

AAU87545;

05-JUN-2002 (first entry)

Novel central nervous system protein #455.

Central nervous system; CNS; autoimmune disease; rheumatoid arthritis;

hyperproliferative disorder; neoplasm; cardiovascular disorder;

cardiac arrest; cerebrovascular disorder; ischemia; angiodenesis;

nervous system disorder; Alzheimer's disease; AIDS; ocular disorder;

acquired immunodeficiency virus; dysphagia; gastrointestinal disorder;

adenocarcinoma; reproductive system disorder; testicular feminisation;

endocrine disorder; diabetes; cancer; leukemia; neovascularisation;

respiratory disorder; renal disorder; kidney failure; blood disorder;

myocardial infarction; wound healing; cell proliferation; skin aging;

food additive; food preservative; gene therapy.

Homo sapiens.

WO200155318-A2.

02-AUG-2001.

17-JAN-2001; 2001WO-US01332.

31-JAN-2000; 2000US-0179065.

04-FEB-2000; 2000US-0180628.

24-FEB-2000; 2000US-0184664.

02-MAR-2000; 2000US-0186350.

16-MAR-2000; 2000US-0189874.

17-MAR-2000; 2000US-0190076.

18-APR-2000; 2000US-0198123.

07-MAY-2000; 2000US-0205515.

07-JUN-2000; 2000US-0209467.

30-JUN-2000; 2000US-0214886.

07-JUL-2000; 2000US-0215135.

07-JUL-2000; 2000US-0216647.

11-JUL-2000; 2000US-0216880.

11-JUL-2000; 2000US-0217487.

14-JUL-2000; 2000US-0217496.

26-JUL-2000; 2000US-0218290.

26-JUL-2000; 2000US-0220963.

14-AUG-2000; 2000US-0220964.

14-AUG-2000; 2000US-0224518.

14-AUG-2000; 2000US-0224519.

14-AUG-2000; 2000US-0225213.

14-AUG-2000; 2000US-0225214.

14-AUG-2000; 2000US-0225266.

14-AUG-2000; 2000US-0225267.

14-AUG-2000; 2000US-0225268.

14-AUG-2000; 2000US-0225270.

14-AUG-2000; 2000US-0225447.

14-AUG-2000; 2000US-0225757.

14-AUG-2000; 2000US-0225758.

14-AUG-2000; 2000US-0225759.

18-AUG-2000; 2000US-0226279.

22-AUG-2000; 2000US-0226681.

22-AUG-2000; 2000US-0226868.

22-AUG-2000; 2000US-0227182.

23-AUG-2000; 2000US-0227099.

30-AUG-2000; 2000US-0228924.

01-SEP-2000; 2000US-0228287.

01-SEP-2000; 2000US-0229343.

01-SEP-2000; 2000US-0229344.

01-SEP-2000; 2000US-0229345.

05-SEP-2000; 2000US-0229509.

05-SEP-2000; 2000US-0229513.

06-SEP-2000; 2000US-0230437.

06-SEP-2000; 2000US-0230438.

08-SEP-2000; 2000US-0231242.



PR	08-SEP-2000	2000US-02331244
PR	08-SEP-2000	2000US-02331447
PR	08-SEP-2000	2000US-02331413
PR	08-SEP-2000	2000US-02331414
PR	08-SEP-2000	2000US-02331800
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PR	14-SEP-2000	2000US-02332977
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PR	14-SEP-2000	2000US-02333663
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PR	21-SEP-2000	2000US-02344774
PR	21-SEP-2000	2000US-02344977
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PR	02-OCT-2000	2000US-02370337
PR	02-OCT-2000	2000US-02370338
PR	02-OCT-2000	2000US-02370339
PR	02-OCT-2000	2000US-02370430
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PR	20-OCT-2000	2000US-02419221
PR	20-OCT-2000	2000US-02417885
PR	20-OCT-2000	2000US-02417886
PR	20-OCT-2000	2000US-02417877
PR	20-OCT-2000	2000US-02418008
PR	20-OCT-2000	2000US-02418009
PR	01-NOV-2000	2000US-02446127
PR	08-NOV-2000	2000US-02446474
PR	08-NOV-2000	2000US-02446475
PR	08-NOV-2000	2000US-02446476
PR	08-NOV-2000	2000US-02446477
PR	08-NOV-2000	2000US-02464788
PR	08-NOV-2000	2000US-02465523
PR	08-NOV-2000	2000US-02465524
PR	08-NOV-2000	2000US-02465525
PR	08-NOV-2000	2000US-02465526
PR	08-NOV-2000	2000US-02465527
PR	08-NOV-2000	2000US-02465528
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PR	08-NOV-2000	2000US-02466109
PR	08-NOV-2000	2000US-02466109
PR	08-NOV-2000	2000US-02466111
PR	08-NOV-2000	2000US-02466113
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PR	17-NOV-2000	2000US-02492909
PR	17-NOV-2000	2000US-02492910
PR	17-NOV-2000	2000US-02492911
PR	17-NOV-2000	2000US-02492912
PR	17-NOV-2000	2000US-02492913
PR	17-NOV-2000	2000US-02492914
PR	17-NOV-2000	2000US-02492915
PR	17-NOV-2000	2000US-02492916
PR	17-NOV-2000	2000US-02492917
PR	17-NOV-2000	2000US-02492918
PR	17-NOV-2000	2000US-02492944
PR	17-NOV-2000	2000US-02492945
PR	17-NOV-2000	2000US-02492946

PR	17-NOV-2000	2000US-0243264
ER	17-NOV-2000	2000US-0243265
ER	17-NOV-2000	2000US-0243297
PR	17-NOV-2000	2000US-0243299
ER	17-NOV-2000	2000US-0243300
PR	01-DEC-2000	2000US-0250160
PR	01-DEC-2000	2000US-0250391
PR	05-DEC-2000	2000US-0251030
PR	05-DEC-2000	2000US-0251988
PR	05-DEC-2000	2000US-0256119
PR	06-DEC-2000	2000US-0251479
PR	08-DEC-2000	2000US-0251858
PR	08-DEC-2000	2000US-0251858
PR	08-DEC-2000	2000US-0251863
ER	08-DEC-2000	2000US-0251983
ER	08-DEC-2000	2000US-0251989
PR	11-DEC-2000	2000US-0254097
PR	05-JAN-2001	2001US-0253678

PI Rosen CA, Barash SC, Ruben SM;  
XX  
XX WPI; 2001-581633/65.  
DR  
DR N-PSDB; ABR43875.  
XX  
XX  
PT New isolated nucleic acid encoding a protein for diagnosing,  
PT preventing, treating or ameliorating medical conditions and used as  
PT food additives or preservatives -  
XX  
XX Claim 9; SEQ ID NO 1063; 837P; English.  
XX

CC The invention describes an isolated nucleic acid molecule (I) encoding a  
CC novel central nervous system protein. (I) and polypeptides (II) encoded  
CC by (I), are used to treat a medical conditions and in diagnosis of a  
CC pathological condition. Disorders which are diagnosed or treated include  
CC autoimmune diseases e.g. rheumatoid arthritis, hyperproliferative  
CC disorders e.g. neoplasms of the breast or liver, cardiovascular disorders  
CC e.g. cardiac arrest, cerebrovascular disorders e.g. cerebral ischemia,  
CC angiogenesis, nervous system disorders e.g. Alzheimer's disease and  
CC amyotrophic lateral sclerosis, infections caused by bacteria, viruses  
CC e.g. Acquired immunodeficiency virus (AIDS) and fungi, ocular disorders  
CC e.g. corneal infection, gastrointestinal disorders e.g. dysphagia,  
CC adenocarcinomas and irritable bowel syndrome, reproductive system  
CC disorders e.g. testicular cancer and disorders e.g. diabetes  
CC and pituitary dwarfism, tumors and disorders at the cellular level e.g.  
CC leukemia, disorders involving neovascularisation e.g. malignancies,  
CC respiratory disorders e.g. nonallergic rhinitis, renal disorders e.g.  
CC acute kidney failure and blood related disorders e.g. myocardial  
CC infarction. The polypeptides can also be used to aid wound healing and  
CC epithelial cell proliferation, to prevent skin aging due to sunburn, to  
CC maintain organs before transplantation, for supporting cell culture of  
CC primary tissues, to regenerate tissues and in chemotaxis. The  
CC polypeptides can also be used as a food additive or preservative to  
CC increase or decrease storage capabilities, fat content, lipid, protein,  
CC

Query Match	76.5%	Score 632;	DB 22;	Length 176;
Best Local Similarity	94.0%	Pred. No. 6.7e-66;		
Matches 126; Conservative	1;	Mismatches 7;	Indels 0;	Gaps 0

Qy	1	AQYSAITLGLNLAAPFIIVYSYSGMFYSVHOSALTAEIRNOVKEMILAKFFIVE	60
Db	1	AQYSAITLGLNLAAPFIIVYSYSGMFYSVHOSALTAEIRNOVKEMILAKFFIVE	60
Qy	61	TDALCMPIFAKPLSLLQVEIPGTITTSWVIGYSAINALNPILYTLTTRPEKMIHRP	120
Db	61	TDALCMPIFAKPLSLLQVEIPGTITTSWVIGYSAINALNPILYTLTTRPEKMIHRP	120
Qy	121	WHNYRQRKSMDSKG	134
Db	121	WHNYRQRKSMDSKG	134



17-NOV-2000; 2000US-0249297.  
PR 17-NOV-2000; 2000US-0249299.  
PR 17-NOV-2000; 2000US-0249300.  
PR 01-DEC-2000; 2000US-0250160.  
PR 01-DEC-2000; 2000US-0250391.  
PR 05-DEC-2000; 2000US-0251030.  
PR 05-DEC-2000; 2000US-0251988.  
PR 05-DEC-2000; 2000US-0256719.  
PR 06-DEC-2000; 2000US-0251479.  
PR 08-DEC-2000; 2000US-0251856.  
PR 08-DEC-2000; 2000US-0251868.  
PR 08-DEC-2000; 2000US-0251869.  
PR 08-DEC-2000; 2000US-0251989.  
PR 08-DEC-2000; 2000US-0251990.  
PR 11-DEC-2000; 2000US-0254097.  
PR 05-JAN-2001; 2001US-0259678.  
XX  
XX (HUMA-) HUMAN GENOME SCI INC.  
XX  
XX Rosen CA, Barash SC, Ruben SM,  
DR WPI; 2001-465573/50.  
DR N-PSDB; AAI99584.  
XX  
XX  
PT Isolated digestive system associated polypeptide for treating,  
PT preventing and/or prognosing disorders related to the digestive system  
PT including digestive system cancers and also for testing and detection  
PT e.g. diagnosis -  
XX  
XX  
PS Claim 11; SEQ ID NO 96; 509pp + Sequence listing; English.  
XX  
XX The invention relates to novel genes (AAI99548-AAI99604) and proteins  
CC (AAM99936-AAM99984) useful for preventing, treating or ameliorating  
CC medical conditions e.g. by protein or gene therapy. The genes are  
CC isolated from a range of human tissues disclosed in the specification.  
CC The nucleic acids, proteins, antibodies and (ant)agonists are useful  
CC in the diagnosis, treatment and prevention of: (a) cancer, e.g. breast  
CC and ovarian cancer and other cancers of the adrenal gland, bone, bone  
CC marrow, breast, gastrointestinal tract, liver, lung, or urogenital;  
CC (b) immune disorders e.g. Addison's disease, allergies, autoimmune  
CC haemolytic anaemia, autoimmune thyroiditis, diabetes mellitus, Crohn's  
CC disease, multiple sclerosis, rheumatoid arthritis and ulcerative  
CC colitis; (c) cardiovascular disorders such as myocardial ischaemia;  
CC (d) wound healing; (e) neurological diseases e.g. cerebral anoxia and  
CC epilepsy; and (f) infectious diseases such as viral, bacterial, fungal  
CC Note: The sequence data for this patent did not form part of the  
CC printed specification, but was obtained in electronic format directly  
CC from WIPO at [ftp.wipo.int/pub/published\\_pct\\_sequences](http://ftp.wipo.int/pub/published_pct_sequences).  
XX  
XX  
SQ Sequence 176 AA;  
Query Match 76.5%; Score 632; DB 22; Length 176;  
Best Local Similarity 94.0%; Pred. No. 6,7e-66;  
Matches 126; Conservative 1; Mismatches 7; Indels 0; Gaps 0;  
QY 1 AQTYSVAIFLGINLAFTIIVSYGSMFYVHOSATATATIRNOVKEMTLARPPFIIV 60  
DB 1 AQTYSVAIFLGINLAFTIIVSYGSMFYVHOSATATIRNOVKEMTLARPPFIIV 60  
QY 61 TDAICMIFIFVAKPLSLQVEIPGTTISWVYIGVSANSLNPLTLTLTRPKEMIHNF 120  
DB 61 TDAICMIFIFVAKPLSLQVEIPGTTISWVYIGVSANSLNPLTLTLTRPKEMIHNF 120  
QY 121 WHNYRQRKSKMDSG 134  
DB 121 WHNYRQRKSKMDSG 134  
RESULT 10  
ABR04062  
ID ABR04062 standard; Protein; 176 AA.  
XX

AC ABR04062;  
XX  
XX 08-JAN-2002 (first entry)  
DT  
XX  
XX Human musculoskeletal system related polypeptide SEQ ID NO 2009.  
DE  
XX  
XX Cytostatic; immunosuppressive; nootropic; neuroprotective; antiviral;  
KW anti-allergic; hepatotropic; antidiabetic; anti-inflammatory; antitumor;  
KW vanguard; anticancer; antibacterial; antifungal; antiparasitic;  
KW cardiac; gene therapy; cancer; immune disorder; cardiovascular disorder;  
KW neurological disease; infection; human; secreted protein;  
KW musculoskeletal system.  
XX  
XX Homo sapiens.  
OS  
XX  
XX MO20015367-A1.  
PN  
XX  
XX 02-AUG-2001.  
PD  
XX  
XX 17-JAN-2001; 2001WO-US01338.  
PF  
XX  
XX 31-JAN-2000; 2000US-0179065.  
PR 04-FEB-2000; 2000US-0180628.  
PR 24-FEB-2000; 2000US-0184664.  
PR 02-MAR-2000; 2000US-0186350.  
PR 16-MAR-2000; 2000US-0189874.  
PR 17-MAR-2000; 2000US-0190076.  
PR 18-APR-2000; 2000US-0198123.  
PR 19-MAY-2000; 2000US-0205515.  
PR 07-JUN-2000; 2000US-0209467.  
PR 28-JUN-2000; 2000US-0214886.  
PR 30-JUN-2000; 2000US-0215135.  
PR 07-JUL-2000; 2000US-0216647.  
PR 07-JUL-2000; 2000US-0216880.  
PR 11-JUL-2000; 2000US-0217487.  
PR 11-JUL-2000; 2000US-0218290.  
PR 14-JUL-2000; 2000US-0218290.  
PR 26-JUL-2000; 2000US-0220963.  
PR 26-JUL-2000; 2000US-0220964.  
PR 14-AUG-2000; 2000US-0224518.  
PR 14-AUG-2000; 2000US-0224519.  
PR 14-AUG-2000; 2000US-0225213.  
PR 14-AUG-2000; 2000US-0225214.  
PR 14-AUG-2000; 2000US-0225266.  
PR 14-AUG-2000; 2000US-0225267.  
PR 14-AUG-2000; 2000US-0225268.  
PR 14-AUG-2000; 2000US-0225270.  
PR 14-AUG-2000; 2000US-0225447.  
PR 14-AUG-2000; 2000US-0225757.  
PR 14-AUG-2000; 2000US-0225758.  
PR 14-AUG-2000; 2000US-0225759.  
PR 18-AUG-2000; 2000US-0226279.  
PR 22-AUG-2000; 2000US-0226681.  
PR 22-AUG-2000; 2000US-0226688.  
PR 22-AUG-2000; 2000US-0227182.  
PR 23-AUG-2000; 2000US-0227009.  
PR 30-AUG-2000; 2000US-0228924.  
PR 01-SEP-2000; 2000US-0228927.  
PR 01-SEP-2000; 2000US-0229343.  
PR 01-SEP-2000; 2000US-0229344.  
PR 01-SEP-2000; 2000US-0229345.  
PR 05-SEP-2000; 2000US-0229509.  
PR 05-SEP-2000; 2000US-0229513.  
PR 06-SEP-2000; 2000US-0230437.  
PR 06-SEP-2000; 2000US-0230438.  
PR 08-SEP-2000; 2000US-0231243.  
PR 08-SEP-2000; 2000US-0231243.  
PR 08-SEP-2000; 2000US-0231244.  
PR 08-SEP-2000; 2000US-0231413.  
PR 08-SEP-2000; 2000US-0231414.  
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PR 05-JAN-2001; 2001US-0259678.  
XX  
XX (HUMA-) HUMAN GENOME SCI INC.  
XX  
XX Rosen CA, Barash SC, Ruben SM;  
PI WPI, 2001-451937/48.  
DR N-PSDB; AAL35644.  
XX  
XX  
PT Isolated polypeptide for treating, preventing and/or prognosing  
PT disorders related to the musculoskeletal system including  
PT musculoskeletal cancers and also for testing and detection e.g.  
PT diagnosis -  
XX  
XX  
PS Claim 11; SEQ ID NO 2009; 781pp + Sequence listing; English.  
XX  
XX The invention relates to novel genes (AAL34669-AAL37666) and proteins  
CC (ABB03087-ABB04109) associated with the musculoskeletal system useful  
CC for preventing, treating or ameliorating medical conditions e.g. by  
CC protein or gene therapy. The genes are isolated from a range of human  
CC tissues disclosed in the specification. The nucleic acids, proteins,  
CC antibodies and (ant)agonists are useful in the diagnosis, treatment  
CC and prevention of: (a) cancer, e.g. breast and ovarian cancer and  
CC other cancers of the adrenal gland, bone, bone marrow, breast,  
CC gastrointestinal tract, liver, lung, or urogenital; (b) immune  
CC disorders e.g. Addison's disease, allergies, autoimmune haemolytic  
CC anaemia, autoimmune thyroiditis, diabetes mellitus, Crohn's disease,  
CC multiple sclerosis, rheumatoid arthritis and ulcerative colitis;  
CC (c) cardiovascular disorders such as myocardial ischaemias; (d) wound  
CC healing; (e) neurological diseases e.g. cerebral anoxia and epilepsy;  
CC and (f) infectious diseases such as viral, bacterial, fungal and  
CC parasitic infections.  
CC Note: The sequence data for this patent did not form part of the  
CC printed specification, but was obtained in electronic format directly  
CC from WIPO at ftp.wipo.int/pub/published\_pct\_sequences.  
XX  
XX  
SQ Sequence 176 AA;  
Query Match 76.5%; Score 632; DB 22; Length 176;  
Best Local Similarity 94.0%; Pred. No. 6.7e-66;  
Matches 126; Conservative 1; Mismatches 7; Indels 0; Gaps 0;  
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DB 1 AQTYSVAIFLGINLAAFIIVSYSGSMFYSVHQSATITATEINQVKEMILAKRFFIVF 60  
QY 61 TDLACWIPIFVVKFSLLOVEIIPGTTISWVVGYSAINSLNPILYTLTTRPFKEMIRF 120  
DB 61 TDLACWIPIFVVKFSLLOVEIIPGTTISWVVGYSAINSLNPILYTLTTRPFKEMIRF 120  
QY 121 WNYRQRKSMDSKG 134  
DB 121 WNYRQRKSMDSKG 134  
RESULT 11  
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ID ABBI0249 standard; Protein; 176 AA.  
XX  
AC ABBI0249;  
XX  
DT 10-JAN-2002 (first entry)  
XX

DE Human cDNA SEQ ID NO: 557.  
XX  
XX Human, gene therapy; neural disorder; immune system disorder;  
KW muscular disorder; reproductive disorder; gastrointestinal disorder;  
KW pulmonary disorder; cardiovascular disorder; renal disorder;  
XX proliferative disorder; inflammation.  
XX  
OS Homo sapiens.  
XX  
PN MO200154474-A2.  
XX  
PD 02-AUG-2001.  
XX  
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XX  
PA (HUMA-) HUMAN GENOME SCI INC.  
XX  
PI Rosen CA, Barash SC, Ruben SM;  
XX WPI: 2001-476161/51.  
DR N-PSDB; ABA06471.  
XX  
PT Isolated nucleic acid molecule encoding an inflammation-associated  
PT polypeptide is used in preventing, creating or ameliorating a medical  
XX condition -  
XX  
PS Claim 11; SEQ ID NO: 557; 859pp + Sequence Listing; English.  
XX  
CC The present invention provides human cDNAs, proteins and related genomic  
CC DNAs. These can be used in the treatment of neural, immune system,  
CC muscular, reproductive, gastrointestinal, pulmonary, cardiovascular,  
CC renal and proliferative disorders and inflammation. The present sequence  
XX is a protein of the invention.  
XX  
SQ Sequence 176 AA;  
XX  
Query Match 76.5%; Score 632; DB 22; Length 176;  
Best Local Similarity 94.0%; Pred. No. 6,7e-66;  
Matches 126; Conservative 1; Mismatches 7; Indels 0; Gaps 0;  
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DB 1 AOTSVAIFGIMAAFIIVFSYSGMFSYHOSAITETIRNOVKEMILAKRFFIYF 60  
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DB 61 TDAICWPIPIVAKPFLSLQVEIPGTTISWVIGSAINSNPLTYLTTRPKEMIRF 120  
QY 121 WNTYRQRKSMDSKG 134  
DB 121 WNTYRQRKSMDSKG 134  
RESULT 12  
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ID AAU18108 standard; Protein; 176 AA.  
XX  
Y AAV18108;  
DT 21-NOV-2001 (first entry)  
XX  
DE Novel human uterine motility-association polypeptide #15.  
XX  
KM Human; uterine motility-association disorder; uterus; pregnancy;  
KM labour; menstrual cycle; gene therapy.  
XX  
OS Homo sapiens.  
XX  
XX WO200155201-A1.  
XX  
PD 02-AUG-2001.  
XX  
PF 17-JAN-2001; 2001WO-US01317.  
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XX 31-JAN-2000; 2000US-017906S.  
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XX  
XX (HUMA-) HUMAN GENOME SCI INC.  
XX  
XX Rosen CA, Barash SC, Ruben SM;  
XX WPI; 2001-488777/53.  
XX N-PSDB; AAS28950.  
XX  
XX Isolated polypeptide and nucleic acid molecules for treating,  
XX preventing and/or prognosing disorders related to uterine motility  
XX e.g. disorders associated with pregnancy and the menstrual cycle -  
XX  
XX Claim 11; SEQ ID No 84; 524pp; English.  
XX  
XX The present invention relates to the isolation of novel human  
XX uterine motility-association polypeptides, and cDNA (AAS28936-AAS28994)  
XX and genomic sequences encoding for these polypeptides.  
XX The sequences of the invention are useful in the diagnosis,

CC treatment, prevention and/or prognosis of diseases associated  
CC with uterine motility such as pregnancy and labour, and menstrual  
CC disorders. The polynucleotide sequences of the invention are also  
CC useful in gene therapy. AAU18094-AAU18152 represent novel human  
CC uterine motility-association polypeptides.  
CC Note: The sequence data for this patent did not form part of the printed  
CC specification, but was obtained in electronic format directly from WIPO  
CC at ftp.wipo.int/pub/published\_pct\_sequences.  
XX  
XX Sequence 176 AA;  
SQ  
Query Match 76.5%; Score 632; DB 22; Length 176;  
Best Local Similarity 94.0%; Pred. No. 6,7e-66;  
Matches 126; Conservative 1; Mismatches 7; Indels 0; Gaps 0;  
QY 1 AAIYSVAIFPLGINAAFIIVPSYSGMFYSVHQSATATETIRNQVKEMILAKRFFFIIVF 60  
DB 1 AAIYSVAIFPLGINAAFIIVPSYSGMFYSVHQSATATETIRNQVKEMILAKRFFFIIVF 60  
QY 61 TDALCMPIPVAKPLSLGVEIRGTTISWVVTGVSAINSLNPLVLTTRPFKEMIRHF 120  
DB 61 TDALCMPIPVAKPLSLGVEIRGTTISWVVTGVSAINSLNPLVLTTRPFKEMIRHF 120  
QY 121 WHNYRKRKSMDSXG 134  
DB 121 WHNYRKRKSMDSXG 134  
RESULT 13  
AAU18344  
ID AAU18344 standard; Protein, 176 AA.  
XX  
XX AAU18344;  
AC  
XX 21-NOV-2001 (first entry)  
DT  
XX  
XX Human endocrine polypeptide SEQ ID No 299.  
DE  
XX  
XX Endocrine protein; human; mouse; rabbit; goat; horse; food additive;  
KW cat; dog; chicken; sheep; immunosuppressive; antidiabetic; vasotropic;  
KW antirheumatic; antiproliferative; cytostatic; cardiatic; neuroprotective;  
KW cerebroprotective; nootropic; antibacterial; virocidic; fungicide; cancer;  
KW ophthalmological; vulnary; gene therapy; autoimmune disease; neoplasm;  
KW hyperproliferative disorder; breast; liver; cardiovascular disorder;  
KW cerebrovascular disorder; nervous system disorder; bacterial infection;  
KW fungal infection; viral infection; ocular disorder; endocrine disorder;  
KW gastrointestinal disorder; renal disorder; respiratory disorder;  
KW wound healing; skin aging; organ transplantation; food preservative;  
KW tissue regeneration; anti-infertility.  
OS  
XX Homo sapiens.  
XX  
XX WO200155164-A2.  
XX  
XX 02-AUG-2001.  
PD  
XX  
XX 17-JAN-2001; 2001WO-US01308.  
PF  
XX  
XX 31-JAN-2000; 2000US-0179065.  
XX  
XX 04-FEB-2000; 2000US-0180628.  
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XX 24-FEB-2000; 2000US-0184664.  
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XX 02-MAR-2000; 2000US-0186350.  
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XX 16-MAR-2000; 2000US-0188874.  
XX  
XX 17-MAR-2000; 2000US-0190076.  
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XX 18-APR-2000; 2000US-0198123.  
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XX 19-MAY-2000; 2000US-0205515.  
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XX 07-JUN-2000; 2000US-0209467.  
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XX 28-JUN-2000; 2000US-0214886.  
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XX 30-JUN-2000; 2000US-0215135.  
XX  
XX 07-JUL-2000; 2000US-0216647.  
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XX 07-JUL-2000; 2000US-0216880.  
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XX 11-JUL-2000; 2000US-0217487.  
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XX 11-JUL-2000; 2000US-0217496.

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PR 26-JUL-2000; 2000US-0220963.  
PR 14-AUG-2000; 2000US-0220964.  
PR 14-AUG-2000; 2000US-0224518.  
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PR 14-AUG-2000; 2000US-0225266.  
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PR 22-AUG-2000; 2000US-0226279.  
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PR 23-AUG-2000; 2000US-0227182.  
PR 30-AUG-2000; 2000US-0227009.  
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PR 14-SEP-2000; 2000US-0232397.  
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PR 14-SEP-2000; 2000US-0232401.  
PR 14-SEP-2000; 2000US-0233063.  
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PR 21-SEP-2000; 2000US-0234223.  
PR 21-SEP-2000; 2000US-0234224.  
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PR 26-SEP-2000; 2000US-0235484.  
PR 27-SEP-2000; 2000US-0235834.  
PR 27-SEP-2000; 2000US-0235836.  
PR 29-SEP-2000; 2000US-0236327.  
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PR 29-SEP-2000; 2000US-0236370.  
PR 02-OCT-2000; 2000US-0236802.  
PR 02-OCT-2000; 2000US-0237037.  
PR 02-OCT-2000; 2000US-0237038.  
PR 02-OCT-2000; 2000US-0237039.  
PR 02-OCT-2000; 2000US-0237040.  
PR 13-OCT-2000; 2000US-0239935.  
PR 13-OCT-2000; 2000US-0239937.  
PR 20-OCT-2000; 2000US-0240960.  
PR 20-OCT-2000; 2000US-0241221.  
PR 20-OCT-2000; 2000US-0241785.  
PR 20-OCT-2000; 2000US-0241786.  
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PR 20-OCT-2000; 2000US-0241808.  
PR 20-OCT-2000; 2000US-0241809.  
PR 20-OCT-2000; 2000US-0241826.  
PR 01-NOV-2000; 2000US-0244617.

PR 08-NOV-2000; 2000US-0246474.  
PR 08-NOV-2000; 2000US-0246475.  
PR 08-NOV-2000; 2000US-0246476.  
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PR 08-NOV-2000; 2000US-0246478.  
PR 08-NOV-2000; 2000US-0246523.  
PR 08-NOV-2000; 2000US-0246524.  
PR 08-NOV-2000; 2000US-0246525.  
PR 08-NOV-2000; 2000US-0246526.  
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PR 08-NOV-2000; 2000US-0246528.  
PR 08-NOV-2000; 2000US-0246532.  
PR 08-NOV-2000; 2000US-0246609.  
PR 08-NOV-2000; 2000US-0246610.  
PR 08-NOV-2000; 2000US-0246611.  
PR 08-NOV-2000; 2000US-0246613.  
PR 17-NOV-2000; 2000US-0249207.  
PR 17-NOV-2000; 2000US-0249208.  
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PR 17-NOV-2000; 2000US-0249215.  
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PR 17-NOV-2000; 2000US-0249217.  
PR 17-NOV-2000; 2000US-0249218.  
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PR 17-NOV-2000; 2000US-0249265.  
PR 17-NOV-2000; 2000US-0249297.  
PR 17-NOV-2000; 2000US-0249299.  
PR 17-NOV-2000; 2000US-0249300.  
PR 01-DEC-2000; 2000US-0250160.  
PR 01-DEC-2000; 2000US-0250391.  
PR 05-DEC-2000; 2000US-0251030.  
PR 05-DEC-2000; 2000US-0251988.  
PR 05-DEC-2000; 2000US-0256719.  
PR 06-DEC-2000; 2000US-0251479.  
PR 08-DEC-2000; 2000US-0251856.  
PR 08-DEC-2000; 2000US-0251869.  
PR 08-DEC-2000; 2000US-0251869.  
PR 08-DEC-2000; 2000US-0251989.  
PR 08-DEC-2000; 2000US-0251990.  
PR 11-DEC-2000; 2000US-0254097.  
PR 05-JAN-2001; 2001US-0259678.  
XX  
XX  
PA (HUMA-) HUMAN GENOME SCI INC.  
XX  
PI Rosen CA, Barash SC, Ruben SM;  
XX  
XX WPI, 2001-451936/48.  
DR N-PSDB; AAS29573.  
XX  
XX  
PT Isolated polypeptide for treating, preventing and/or prognosing  
PT disorders of the endocrine system such as reproductive disorders,  
PT endocrine cancers and also for testing and detection e.g. diagnosis -  
XX  
XX  
PS Claim 11; SEQ ID No 299, 604pp; English.  
XX  
XX Sequences AAU18282-AAU18507 represent endocrine polypeptides of the  
CC invention. Endocrine polypeptides and their associated polymucleotides  
CC are useful in the diagnosis, treatment and prevention of various types of  
CC disorders in e.g. humans, mice, rabbits, goats, horses, cats, dogs,  
CC chickens or sheep. A pathological condition can be determined by  
CC determining the presence or absence of a mutation in an endocrine  
CC polynucleotide. The treatable disorders include autoimmune diseases such  
CC as rheumatoid arthritis, hyperproliferative disorders such as neoplasms  
CC of the breast or liver, cardiovascular disorders such as cardiac arrest,  
CC cerebrovascular disorders such as cerebral ischaemia, nervous system  
CC disorders such as Alzheimer's disease, infections caused by bacteria.



CC viruses and fungi, ocular disorders such as corneal infection, endocrine  
CC disorders such as premature labour and infertility, gastrointestinal  
CC disorders such as Crohn's disease, renal disorders such as  
CC glomerulonephritis and respiratory disorders such as asthma. The  
CC polypeptides can also be used to aid wound healing, to prevent skin aging  
CC due to sunburn, to maintain organs before transplantation, to regenerate  
CC tissues and in chemotaxis. The polypeptides can also be used as a food  
CC additive or preservative to increase or decrease storage capabilities.  
CC Note: The sequence data for this patent did not form part of the printed  
CC specification, but was obtained in electronic format directly from WIPO  
CC at fcp.wipo.int/pub/published\_pct\_sequences.

Query Match 76.5%; Score 632; DB 22; Length 176;  
Best Local Similarity 94.0%; Pred. No. 6,7e-66;  
Matches 126; Conservative 1; Mismatches 7; Indels 0; Gaps 0;

QY 1 AQTSAVAFPGINLAATFIYFSGSMFYSVHOSATRTIRNOVKEMILAKRFFIYF 60  
1 AQTSAVAFPGINLAATFIYFSGSMFYSVHOSATRTIRNOVKEMILAKRFFIYF 60

Db 61 TDALCWIPFVAKPELSLQVEIPGTITSWVYIGYSAINSLNPILYTLTRPKEMIHFP 120  
61 TDALCWIPFVAKPELSLQVEIPGTITSWVYIGYSAINSLNPILYTLTRPKEMIHFP 120

QY 121 WHNRORXSMDSKG 134  
121 WHNRORXSMDSKG 134

Db 121 WYNRORXSMDSKG 134  
121 WYNRORXSMDSKG 134

RESULT 14

ID AAU18666 standard; Protein; 176 AA.

XX AAU18666;  
XX 21-NOV-2001 (first entry)

DE Renal and cardiovascular-associated protein, Seq ID 105.

XX Human; antiinflammatory; neuroprotective; immunomodulator; vulnerrary;  
XX cardiovascular; cytoskeletal; nephrotoxic; antihaemic; nephritis;  
XX immunosuppressive; kidney disorder; renal failure; hypertension;  
XX cardiovascular disorder; myocardial infarction; blood disorder; anaemia;  
XX blood coagulation disorder; electrolyte imbalance disorder; cancer;  
XX hyponatremia; hyperkalemia; neoplastic disorder; nephroma;  
XX autoimmune disease; inflammatory disease; reproductive system disorder;  
XX endocrine disorder; neural activity; neurological disorder;  
XX wound healing; respiratory disorder.

XX Homo sapiens.

XX WO20015328-A2.

XX 02-AUG-2001.

XX 17-JAN-2001; 2001WO-US01359.

XX 31-JAN-2000; 2000US-0179065.  
PR 04-FEB-2000; 2000US-0180628.  
PR 24-FEB-2000; 2000US-0184664.  
PR 02-MAR-2000; 2000US-0186350.  
PR 16-MAR-2000; 2000US-0189874.  
PR 17-MAR-2000; 2000US-0190076.  
PR 18-APR-2000; 2000US-0198123.  
PR 19-MAY-2000; 2000US-0205515.  
PR 07-JUN-2000; 2000US-0209467.  
PR 28-JUN-2000; 2000US-0214886.  
PR 30-JUN-2000; 2000US-0215135.  
PR 07-JUL-2000; 2000US-0216647.  
PR 07-JUL-2000; 2000US-0216880.  
PR 11-JUL-2000; 2000US-0217487.  
PR 11-JUL-2000; 2000US-0217496.  
PR 14-JUL-2000; 2000US-0218290.

PR 26-JUL-2000; 2000US-0220963.  
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PR 30-AUG-2000; 2000US-0228924.  
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PR 08-NOV-2000; 2000US-0246475.  
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 PR 08-NOV-2000; 2000US-0246526.  
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 PR 08-DEC-2000; 2000US-0251990.  
 PR 11-DEC-2000; 2000US-0254097.  
 PR 05-JAN-2001; 2001US-0259678.  
 XX (HUMA-) HUMAN GENOME SCI INC.  
 PI Rosen CA, Barash SC, Ruben SM;  
 DR WPI; 2001-488787/53.  
 XX N-PSDB; AAS30187.  
 PT New polynucleotides and polypeptides, useful for diagnosing, treating,  
 PT preventing or prognosing e.g. kidney, cardiovascular, blood,  
 PT electrolyte imbalance or neoplastic disorders, autoimmune diseases,  
 PT cancers -  
 XX  
 PS Claim 1; SEQ ID No 105; 506pp; English.  
 PS  
 CC The invention relates to novel nucleic acids and polypeptides useful for  
 CC diagnosing, treating, preventing and/or prognosing disorders related to  
 CC these polypeptides. The polynucleotides are especially useful in the  
 CC diagnosis, prognosis, prevention and/or treatment of diseases which  
 CC include kidney disorders (e.g. renal failure or nephritis),  
 CC cardiovascular disorders (e.g. hypertension or myocardial infarction),  
 CC blood disorders (e.g. anaemia or blood coagulation disorders),  
 CC electrolyte imbalance disorders (e.g. hyponatraemia or hyperkalaemia),  
 CC neoplastic disorders (e.g. nephroma or renal cell cancer), autoimmune  
 CC diseases, cancers, inflammatory diseases, reproductive system  
 CC disorders, endocrine disorders, neural activity and neurological

CC disorders, wound healing and respiratory disorders. AAU18644-AAU18715  
 CC represent the novel human renal and cardiovascular-associated amino  
 CC acid sequences of the invention. Note: The sequence data for this patent  
 CC did not form part of the printed specification, but was obtained in  
 CC electronic format directly from WIPO at:  
 CC ftp.wipo.int/pub/published\_pct\_sequences.  
 XX  
 SQ Sequence 176 AA;  
 Query Match 76.5%; Score 632; DB 22; Length 176;  
 Best Local Similarity 94.0%; Pred. No. 6.7e-66;  
 Matches 126; Conservative 1; Mismatches 7; Indels 0; Gaps 0;  
 QY 1 AQLYSVAIFLGINLAFFITIVSYSGMFYSVQSAITAEINQVKEMTLAKRFFPIVF 60  
 DB 1 AQLYSVAIFLGINLAFFITIVSYSGMFYSVQSAITAEINQVKEMTLAKRFFPIVF 60  
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 DB 61 TDALCWIPIFFVAKPLSLQVEIPGTTSMVVGYSANSLNPILYTLTTRPFKEMHIF 120  
 QY 121 WNYRQRKSMDSKG 134  
 DB 121 WNYRQRKSMDSKG 134  
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 ID AAU21646 standard; Protein; 176 AA.  
 XX  
 AC AAU21646;  
 XX  
 DT 06-DEC-2001 (first entry)  
 XX  
 DE Novel human neoplastic disease associated polypeptide #79.  
 XX  
 KW Human; neoplastic disease associated polypeptide; cancer;  
 KW hyperproliferative disorder; neural disorder; immune system disorder;  
 KW muscular disorder; reproductive disorder; gastrointestinal disorder;  
 KW pulmonary disorder; cardiovascular disorder; renal disorder;  
 KW neuroprotective; cytosstatic; anti inflammatory; vasotropic.  
 XX  
 OS Homo sapiens.  
 XX  
 PN WO200155163-A1.  
 XX  
 PD 02-AUG-2001.  
 XX  
 PF 17-JAN-2001; 2001WO-US01358.  
 XX  
 PR 31-JAN-2000; 2000US-0179065.  
 PR 04-FEB-2000; 2000US-0180628.  
 PR 24-FEB-2000; 2000US-0184664.  
 PR 02-MAR-2000; 2000US-0186350.  
 PR 16-MAR-2000; 2000US-0189874.  
 PR 17-MAR-2000; 2000US-0190076.  
 PR 18-APR-2000; 2000US-0198123.  
 PR 19-MAY-2000; 2000US-0205515.  
 PR 07-JUN-2000; 2000US-0209467.  
 PR 28-JUN-2000; 2000US-0214886.  
 PR 30-JUN-2000; 2000US-0215135.  
 PR 07-JUL-2000; 2000US-0216647.  
 PR 07-JUL-2000; 2000US-0216880.  
 PR 11-JUL-2000; 2000US-0217487.  
 PR 11-JUL-2000; 2000US-0217496.  
 PR 14-JUL-2000; 2000US-0218290.  
 PR 26-JUL-2000; 2000US-0220963.  
 PR 26-JUL-2000; 2000US-0220964.  
 PR 14-AUG-2000; 2000US-0224518.  
 PR 14-AUG-2000; 2000US-0224519.  
 PR 14-AUG-2000; 2000US-0225213.  
 PR 14-AUG-2000; 2000US-0225214.  
 PR 14-AUG-2000; 2000US-0225266.



SQ Sequence 176 AA;

Query Match 76.5%; Score 632; DB 22; Length 176;

Best Local Similarity 94.0%; Pred. No. 6.7e-66; Matches 126; Conservative 1; Mismatches 7; Indels 0; Gaps 0;

Qy	1	AOIYSVAIFLGINLAFFIIIVFSYSGSMFYSVHOSAITATEIRNOVKKEMIIAKRFFPIVF	60
Db	1	AOIYSVAIFLGINLAFFIIIVFSYSGSMFYSVHOSAITATEIRNOVKKEMIIAKRFFPIVF	60
Qy	61	TDALCMPIPIFVAKPISTLOVEIRGTTTSMWVIGYSAINSALNPILYTLTRPPEKMTIRF	120
Db	61	TDALCMPIPIFVAKPISTLOVEIRGTTTSMWVIGYSAINSALNPILYTLTRPPEKMTIRF	120
Qy	121	WHNYRQRKSMDSKG	134
Db	121	WHNYRQRKSMDSKG	134

Search completed: February 3, 2003, 14:21:13  
Time : 61 secs



GenCore version 5.1.3  
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OM protein - protein search, using sw model

Run on: February 3, 2003, 13:48:12 ; Search time 37 Seconds  
(without alignments)  
407.922 Million cell updates/sec

Title: US-10-049-568-2

Perfect score: 826  
Sequence: 1 AQLYSVALFLGINAFLII.....HMLHSSGKCGKRCRCHUS 157

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 283224 seqs, 96134422 residues  
Minimum DB seq length: 0  
Maximum DB seq length: 2000000000  
Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : PIR 73: \*  
1: p1r1: \*  
2: p1r2: \*  
3: p1r3: \*  
4: p1r4: \*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	207.5	25.1	1115	2 S40241	G protein-coupled
2	143.5	17.4	925	2 JCI493	folliotropin recept
3	143	17.3	925	2 JCI2033	G protein-coupled
4	141.5	17.1	695	1 JN0898	folliotropin recept
5	140.5	17.0	686	2 A41344	folliotropin recept
6	139.5	16.9	692	2 A34548	folliotropin recept
7	139.5	16.9	692	2 A34548	folliotropin recept
8	136.5	16.5	694	2 JCI4301	follicle stimulat
9	134	16.2	700	2 I77463	leutenizing hormon
10	134	16.2	700	2 A49744	lutropin-receptor
11	134	16.2	700	2 A42395	lutropin-receptor
12	134	16.2	814	2 JCI7389	thyroid stimulat
13	132	16.0	793	2 JCI7390	thyroid stimulat
14	131.5	15.9	694	2 JCI237	folliotropin recept
15	131	15.9	699	1 QRHUT	lutropin-choriogon
16	128	15.5	320	1 S17177	probable G protein
17	128	15.5	337	2 S6678	adenosine receptor
18	127	15.4	764	2 JCI5643	thyroid stimulat
19	125.5	15.2	695	1 ORHUT	folliotropin recept
20	124	15.0	696	1 JCI7361	folliotropin recept
21	124	15.0	764	2 A35856	thyrotropin recept
22	122	14.8	764	2 A40077	thyrotropin recept
23	121	14.6	764	2 I48882	thyrotropin recept
24	119.5	14.5	332	2 A42171	A2-adenosine recep
25	119.5	14.5	378	2 JCI5245	G protein-coupled
26	119.5	14.5	417	2 E30341	alpha-1b-adrenergic
27	119.5	14.5	517	2 A45121	alpha-1b adrenergic
28	118	14.3	332	2 I48933	adenosine receptor
29	117.5	14.2	515	2 A40491	alpha-1-adrenergic

30	117.5	14.2	764	1 ORHURH	thyrotropin recept
31	117	14.2	326	2 I48096	Adenosine recep
32	117	14.2	326	2 A38144	adenosine receptor
33	117	14.2	332	2 JCI229	adenosine receptor
34	115	13.9	326	2 A53005	adenosine receptor
35	114	13.8	466	2 T26458	hypothetical prote
36	113.5	13.7	320	2 A46152	A3 adenosine recep
37	113.5	13.7	392	2 S65693	opioid receptor mu
38	113.5	13.7	400	2 I56553	mu opiate receptor
39	113	13.7	326	2 C30341	G protein-coupled
40	113	13.7	444	2 T27866	hypothetical prote
41	112	13.6	328	2 JN0675	adenosine receptor
42	111	13.4	185	2 I48931	adenosine receptor
43	111	13.4	326	2 A40376	adenosine receptor
44	111	13.4	386	1 S34043	oxytocin receptor
45	110.5	13.4	324	2 S55302	A(1) adenosine rec

## ALIGNMENTS

## RESULT 1

S40241

G protein-coupled receptor - great pond snail

C:Species: Lymnaea stagnalis (great pond snail)

C:Date: 06-Jan-1995 #sequence\_revision 06-Jan-1995 #text\_change 15-Jun-2001

C:Accession: S40241

R:Rensen, C.P.; Kesteren, E.R.; Planta, R.U.; Cox, K.; Burke, J.F.; Heerikhuizen, H.; Vre

submitted to the EMBL Data Library, June 1993

A:Description: A G protein-coupled receptor with LDL-binding motifs suggests a role for J

A:Reference number: S40241

A:Accession: S40241

A:Status: preliminary

A:Molecule type: mRNA

A:Residues: 1-1115 <TB>

A:Cross-References: EMBL:Z23104, NID:9438128, PID:9438129

C:Superfamily: great pond snail LDL receptor-related G protein-coupled receptor, LDL rec

C:Keywords: G protein-coupled receptor; transmembrane protein

C:Keywords: LDL receptor ligand-binding repeat homology <LDL1>

F:118-113/Domain: LDL receptor ligand-binding repeat homology <LDL2>

F:118-113/Domain: LDL receptor ligand-binding repeat homology <LDL2>

F:118-113/Domain: LDL receptor ligand-binding repeat homology <LDL2>

F:118-113/Domain: LDL receptor ligand-binding repeat homology <LDL2>

F:118-113/Domain: LDL receptor ligand-binding repeat homology <LDL2>

F:118-113/Domain: LDL receptor ligand-binding repeat homology <LDL2>

F:118-113/Domain: LDL receptor ligand-binding repeat homology <LDL2>

F:118-113/Domain: LDL receptor ligand-binding repeat homology <LDL2>

F:118-113/Domain: LDL receptor ligand-binding repeat homology <LDL2>

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F:118-113/Domain: LDL receptor ligand-binding repeat homology <LDL2>

F:118-113/Domain: LDL receptor ligand-binding repeat homology <LDL2>

F:118-113/Domain: LDL receptor ligand-binding repeat homology <LDL2>

F:118-113/Domain: LDL receptor ligand-binding repeat homology <LDL2>

## RESULT 2

JC1493

Follicleotropin receptor - sheep

N/Alternate names: follicle stimulating hormone receptor

C/Species: Ovis orientalis aries, Ovis ammon aries (domestic sheep)

C/Date: 03-Feb-1994 #sequence\_revision 03-Feb-1994 #text\_change 21-Jan-2000

C/Accession: JC1493; 147080

R/Khan, H.; Yarney, T.A.; Saitem, M.R.

Biochem. Biophys. Res. Commun. 190, 888-894, 1993

A/Title: Cloning of alternatively spliced mRNA transcripts coding for variants of ovine te

A/Reference number: JC1493; MUID:9316195; PMID:8439338

A/Accession: JC1493

A/Molecule type: mRNA

A/Residues: 1-695 &lt;KOA&gt;

A/Experimental source: testis

R/Yarney, T.A.; Saitem, M.R.; Khan, H.; Ravindranath, N.; Payne, S.; Seidah, N.G.

Mol. Cell. Endocrinol. 93, 219-228, 1993

A/Title: Molecular cloning and expression of the ovine testicular follicle stimulating h

A/Reference number: 147080; MUID:93351750; PMID:8394255

C/Accession: 147080

A/Status: preliminary; translated from GB/EMBL/DBJ

A/Molecule type: mRNA

A/Residues: 1-695 &lt;VAR&gt;

A/Cross-references: GB:U07302; NID:g165884; PIDN:AAA31525.1; PID:g165885

C/Genetics:

A/Gene: FSH-R

C/Superfamily: glycoprotein hormone receptor; leucine-rich alpha-2-glycoprotein repeat h

C/Keywords: G protein-coupled receptor; glycoprotein; transmembrane protein

F/71-95/Domain: leucine-rich alpha-2-glycoprotein repeat homology &lt;LRR&gt;

F/191,199/Binding site: carbohydrate (Asn) (covalent) #status predicted

Query Match 17.4%; Score 143.5; DB 2; Length 695;

Best Local Similarity 27.2%; Pred. No. 1.4e-06;

Matches 44; Conservative 32; Mismatches 59; Indels 27; Gaps 6;

QY 1 AOIYVAIFLGINLAFFITVSYGSMFVSQSAITATEIRNQVKEMILAKRFFVIF 60

DB 527 SGLYVMSI-LVIANLAFVVGCTHTYLVTRPNNTSS-----SSDRIRAKRMAMLI 579

QY 61 TDALCWMTI-FAKPLSLQVEIPGTTISWVVGYSANSLNPILYTLTPPKR----- 115

DB 580 TDFLCMAISFPAISASIKPLIVGSKLILVLPFINSKANPFLYALFTNFRDPI 639

QY 116 MHRFW-----HNYRQKSMDSKGRKMLHSSGCGHCRCH 151

DB 640 LLSKFCYEQAGQYRSTSEFA-----HNPHRNGHC 672

## RESULT 3

JC2033

G protein-coupled receptor - sea anemone (Anthopleura elegantissima)

C/Species: Anthopleura elegantissima

C/Date: 30-Sep-1993 #sequence\_revision 20-Aug-1994 #text\_change 21-Jul-2000

C/Accession: JC2033; S41908

R/Nothacker, H.P.; Grimmelshuis, C.J.P.

Biochem. Biophys. Res. Commun. 197, 1062-1069, 1993

A/Title: Molecular cloning of a novel, putative G protein-coupled receptor from sea anem

A/Reference number: JC2033; MUID:94107299; PMID:8280121

A/Accession: JC2033

A/Molecule type: mRNA

A/Residues: 1-925 &lt;NOT&gt;

A/Cross-references: EMBL:Z28332; NID:g452810; PIDN:CAA82186.1; PID:g452811

C/Superfamily: leucine-rich alpha-2-glycoprotein repeat homology

C/Keywords: G protein-coupled receptor; glycoprotein; neuroepitide; phosphoprotein; tran

F/61-84/Domain: leucine-rich alpha-2-glycoprotein repeat homology &lt;LRR1&gt;

F/85-109/Domain: leucine-rich alpha-2-glycoprotein repeat homology &lt;LRR2&gt;

F/110-133/Domain: leucine-rich alpha-2-glycoprotein repeat homology &lt;LRR3&gt;

F/133-157/Domain: leucine-rich alpha-2-glycoprotein repeat homology &lt;LRR4&gt;

F/333-349/Domain: leucine-rich alpha-2-glycoprotein repeat homology &lt;LRR5&gt;

F/530-551/Domain: transmembrane #status predicted &lt;TM1&gt;

F/562-584/Domain: transmembrane #status predicted &lt;TM2&gt;

F/607-628/Domain: transmembrane #status predicted &lt;TM3&gt;

F/652-673/Domain: transmembrane #status predicted &lt;TM4&gt;

F/692-712/Domain: transmembrane #status predicted &lt;TM5&gt;

F/740-763/Domain: transmembrane #status predicted &lt;TM6&gt;

F/775-795/Domain: transmembrane #status predicted &lt;TM7&gt;

F/61,152,212,435,491,495/Binding site: carbohydrate (Asn) (covalent) #status predicted

F/553,645,855,859,868,894,900/Binding site: phosphate (Ser) (covalent) #status predicted

F/649,855/Binding site: phosphate (Thr) (covalent) #status predicted

Query Match 17.3%; Score 143; DB 2; Length 925;

Best Local Similarity 33.3%; Pred. No. 2.1e-06;

Matches 37; Conservative 21; Mismatches 47; Indels 6; Gaps 3;

QY 6 VAIFGINTLAFFITVSYGSMFVSQSAITATEIRNQVK-EMILAKRFFVIFDAL 64

DB 694 VAFLLVNGASFISVWLYSRMLYV-----VSGDEGAPKENDSVAKRMALVFTDML 749

QY 65 CMIRI-FAKPLSLQVEIPGTTISWVVGYSANSLNPILYTLTPPKR 114

DB 750 CMPIAFPGLLAAGQTLTVTQSKILVFPFINSICNPFYALFTTAKF 800

## RESULT 4

JN0898

Follicleotropin receptor precursor - crab-eating macaque

N/Alternate names: follicle-stimulating hormone receptor (FSHR)

C/Species: Macaca fascicularis (crab-eating macaque)

C/Date: 10-Sep-1999 #sequence\_revision 10-Sep-1999 #text\_change 10-Sep-1999

C/Accession: JN0898; S36452

R/Gromoll, J.; Sharma, R.S.; Nieschlag, E.

Biochem. Biophys. Res. Commun. 196, 1066-1072, 1993

A/Title: Molecular cloning of the testicular follicle stimulating hormone receptor of the

A/Reference number: JN0898; MUID:94071854; PMID:7504463

A/Accession: JN0898

A/Molecule type: mRNA

A/Residues: 1-695 &lt;GEO&gt;

A/Cross-references: EMBL:X74454; NID:g396801; PIDN:CAA52463.1; PID:g396802

A/Note: the authors translated the codon ACT for residue 488 as Arg

C/Function:

A/Description: receptor that mediates the biochemical effects of follicleotropin

C/Superfamily: glycoprotein hormone receptor; leucine-rich alpha-2-glycoprotein repeat h

C/Keywords: G protein-coupled receptor; glycoprotein; hormone receptor; phosphoprotein; i

F/1-11/Domain: signal sequence #status predicted &lt;SIG&gt;

F/18-695/Product: follicleotropin receptor #status predicted &lt;PR&gt;

F/71-95/Domain: leucine-rich alpha-2-glycoprotein repeat homology &lt;LRR2&gt;

F/96-120/Domain: leucine-rich alpha-2-glycoprotein repeat homology &lt;LRR3&gt;

F/121-145/Domain: leucine-rich alpha-2-glycoprotein repeat homology &lt;LRR4&gt;

F/146-169/Domain: leucine-rich alpha-2-glycoprotein repeat homology &lt;LRR5&gt;

F/172-193/Domain: leucine-rich alpha-2-glycoprotein repeat homology &lt;LRR6&gt;

F/194-218/Domain: leucine-rich alpha-2-glycoprotein repeat homology &lt;LRR7&gt;

F/367-387/Domain: transmembrane #status predicted &lt;TM1&gt;

F/399-421/Domain: transmembrane #status predicted &lt;TM2&gt;

F/444-465/Domain: transmembrane #status predicted &lt;TM3&gt;

F/486-509/Domain: transmembrane #status predicted &lt;TM4&gt;

F/529-550/Domain: transmembrane #status predicted &lt;TM5&gt;

F/574-597/Domain: transmembrane #status predicted &lt;TM6&gt;

F/609-630/Domain: transmembrane #status predicted &lt;TM7&gt;

F/191,199,293,318/Binding site: carbohydrate (Asn) (covalent) #status predicted

F/555/Binding site: phosphate (Thr) (covalent) (by protein kinase C) #status predicted

F/596/Binding site: phosphate (Ser) (covalent) (by protein kinase C) #status predicted

Query Match 17.1%; Score 141.5; DB 1; Length 695;

Best Local Similarity 26.5%; Pred. No. 2.2e-06;

Matches 44; Conservative 32; Mismatches 63; Indels 27; Gaps 6;

QY 1 AOIYVAIFLGINLAFFITVSYGSMFVSQSAITATEIRNQVKEMILAKRFFVIF 60

DB 527 SGLYVMSI-LVIANLAFVVGCTHTYLVTRPNNTSS-----SSDRIRAKRMAMLI 579

QY 61 TDALCWMTI-FAKPLSLQVEIPGTTISWVVGYSANSLNPILYTLTPPKR----- 115

DB 580 TDFLCMAISFPAISASIKPLIVGSKLILVLPFINSKANPFLYALFTNFRDPI 639

QY 116 MHRFW-----HNYRQKSMDSKGRKMLHSSGCGHCRCH 155

Db 640 LSKRFGCYEMQAIYRTETSTSTA-----HNSHPKHCSSAH 676

## RESULT 5

A13344  
Luteal-choriogonadotropin receptor precursor (splice form A) - pig  
C:Species: Sus scrofa domestica (domestic pig)  
C>Date: 22-Jan-1993 #sequence\_revision 22-Jan-1993 #text\_change 21-Jan-2000  
C:Accession: A41344  
R:Loosfelt, H.; Mistrahl, M.; Atger, M.; Salese, R.; Vu Hai-Luu Thi, M.T.; Jolivet, A.;  
Science 245, 525-528, 1989  
A>Title: Cloning and sequencing of porcine LH-hCG receptor cDNA: variants lacking transmembrane  
A:Reference number: A41344; MUID:89332517; PMID:2502844  
A:Accession: A41344  
A:Molecule type: mRNA  
A:Residues: 1-696 <R00>  
A:Cross-references: GB:M29525; NID:g164528; PIDN:AAA1062.1; PID:g164529  
C:Superfamily: glycoprotein hormone receptor; leucine-rich alpha-2-glycoprotein repeat h  
C:Keywords: alternative splicing; G protein-coupled receptor; glycoprotein; membrane pro  
F:27/Domain: signal sequence #status predicted <SIG>  
F:28-696/Product: luteal-choriogonadotropic hormone receptor #status predicted <MAT>  
F:99-123/Domain: leucine-rich alpha-2-glycoprotein repeat homology <LRR>

Query Match 17.0%; Score 140.5; DB 2; Length 696;  
Best Local Similarity 27.2%; Pred. No. 2.8e-06;  
Matches 41; Conservative 26; Mismatches 55; Indels 29; Gaps 4;  
Oy 1 AOTSVAIFLGINLAFFITVSYGSMFVSQSAITATEIRNOVKEMILAKRFFIYF 60  
Db 524 SOLYITLIL-LANVAFLIICACYIKYFAVONPELMAT-----NKDTKAKMAVLIF 576  
Oy 61 TDALCWIPF-FVAKPLSLQVEIPGTTTSWVIGYSAINSALNPILYTLTTRPFKMIHR 119  
Db 577 TDFLCMAPIFFPAISAKVPLITVNSKVLVLFYVNSCANPFLYAIPTKAFR----- 631  
Oy 120 FWHNTQRKSMDSKIRKEMHSHSGCKGH 150  
Db 632 -----RDFILLKSGCKGH 646

## RESULT 6

A34548  
Follicle-stimulating hormone precursor - rat  
C:Species: Rattus norvegicus (Norway rat)  
C>Date: 22-Jan-1993 #sequence\_revision 22-Jan-1993 #text\_change 13-Aug-1999  
C:Accession: A34548; A41729  
R:Heckert, R.; Braun, T.; Nikolic, K.; Segaloff, D.L.; Seeburg, P.H.  
Mol. Endocrinol. 4, 525-530, 1990  
A>Title: The testicular receptor for follicle-stimulating hormone: structure and function  
A:Reference number: A34548; MUID:91123358; PMID:2126341  
A:Accession: A34548  
A:Molecule type: mRNA  
A:Residues: 1-692 <SPR>  
A:Cross-references: GB:L02842; NID:g204183; PIDN:AAA41175.1; PID:g204184  
R:Heckert, D.L.; Daley, L.J.; Griswold, M.D.  
Mol. Endocrinol. 6, 70-80, 1992  
A>Title: Structural organization of the follicle-stimulating hormone receptor gene.  
A:Reference number: A41729; MUID:92149579; PMID:1738373  
A:Accession: A41729  
A>Status: preliminary  
A:Molecule type: DNA  
A:Residues: 1-692 <HEC>  
A:Cross-references: GB:S81196; NID:g245344; PIDN:AA821415.1; PID:g245345  
A>Note: sequence inconsistent with the nucleotide translation  
A>Note: sequence extracted from NCBI backbone (NCBIN:81117, NCBIN:81119, NCBIN:81121, NC  
Mol. Endocrinol. 9, 159-170, 1995  
A>Title: Identification of the sites of N-linked glycosylation on the follicle-stimulating  
A:Reference number: A57562; MUID:95295729; PMID:7776966  
A:Contents: annotation; glycosylation sites  
C:Function:

A>Description: receptor that mediates the biochemical effects of follicotropin  
C:Superfamily: glycoprotein hormone receptor; leucine-rich alpha-2-glycoprotein repeat h  
C:Keywords: alternative splicing; G protein-coupled receptor; glycoprotein; hormone rece

F:1-15/Domain: signal sequence #status predicted <SIG>  
F:16-692/Product: follicle-stimulating hormone binding #status predicted <MAT>  
F:16-366/Domain: extracellular hormone binding #status predicted <LRR1>  
F:66-70/Domain: leucine-rich alpha-2-glycoprotein repeat homology <LRR2>  
F:71-95/Domain: leucine-rich alpha-2-glycoprotein repeat homology <LRR3>  
F:96-120/Domain: leucine-rich alpha-2-glycoprotein repeat homology <LRR4>  
F:121-145/Domain: leucine-rich alpha-2-glycoprotein repeat homology <LRR5>  
F:146-169/Domain: leucine-rich alpha-2-glycoprotein repeat homology <LRR6>  
F:172-193/Domain: leucine-rich alpha-2-glycoprotein repeat homology <LRR7>  
F:194-218/Domain: leucine-rich alpha-2-glycoprotein repeat homology <LRR8>  
F:367-387/Domain: transmembrane #status predicted <TM1>  
F:398-421/Domain: transmembrane #status predicted <TM2>  
F:443-465/Domain: transmembrane #status predicted <TM3>  
F:466-508/Domain: transmembrane #status predicted <TM4>  
F:529-550/Domain: transmembrane #status predicted <TM5>  
F:574-597/Domain: transmembrane #status predicted <TM6>  
F:609-630/Domain: transmembrane #status predicted <TM7>  
F:191,199,293/Binding site: carbohydrate (Asn) (covalent) #status predicted  
F:554/Binding site: phosphate (Thr) (covalent) (by protein kinase C) #status predicted  
F:595/Binding site: phosphate (Ser) (covalent) (by protein kinase C) #status predicted

Query Match 16.9%; Score 139.5; DB 2; Length 692;  
Best Local Similarity 27.3%; Pred. No. 3.6e-06;  
Matches 47; Conservative 30; Mismatches 60; Indels 35; Gaps 6;  
Oy 1 AOTSVAIFLGINLAFFITVSYGSMFVSQSAITATEIRNOVKEMILAKRFFIYF 60  
Db 526 SOLYVAML-LVANVLAFLVIGCYTHIVLVNPNPTVSS-----SSDTKAKMAVLIF 578  
Oy 61 TDALCWIPF-FVAKPLSLQVEIPGTTTSWVIGYSAINSALNPILYTLTTRPFKMIHR 115  
Db 579 TDFLCMAPIFFPAISAKVPLITVNSKAKILVLFYVNSCANPFLYAIPTKAFRDFEI 638  
Oy 116 MIHRF-----WHNTQRKSMDSKIRK-----MHSS 144  
Db 639 LSKRFGCYEMQAIYRTETSTSTAHPARKSHCSSAPRVTSYLVPLNHSS 690

## RESULT 7

I45896  
Follicle-stimulating hormone receptor - bovine  
C:Species: Bos primigenius taurus (cattle)  
C>Date: 15-Oct-1996 #sequence\_revision 15-Oct-1996 #text\_change 21-Jan-2000  
C:Accession: I45896  
R:Heckert, A.; Lambert, A.; Saumande, J.; Silversides, D.W.; Lussier, J.G.  
Mol. Reprod. Dev. 39, 127-135, 1994  
A>Title: Structure of the bovine follicle-stimulating hormone receptor complementary DNA  
A:Reference number: I45896; MUID:95127199; PMID:7826612  
A:Accession: I45896  
A>Status: preliminary; translated from GB/EMBL/DBJ  
A:Molecule type: mRNA  
A:Residues: 1-695 <R00>  
A:Cross-references: GB:L2319; NID:g404671; PIDN:AAC37324.1; PID:g404672  
C:Genetics:  
A:Gene: FSHR  
C:Superfamily: glycoprotein hormone receptor; leucine-rich alpha-2-glycoprotein repeat h  
F:71-95/Domain: leucine-rich alpha-2-glycoprotein repeat homology <LRR>

Query Match 16.9%; Score 139.5; DB 2; Length 695;  
Best Local Similarity 26.5%; Pred. No. 3.6e-06;  
Matches 43; Conservative 33; Mismatches 59; Indels 27; Gaps 6;  
Oy 1 AOTSVAIFLGINLAFFITVSYGSMFVSQSAITATEIRNOVKEMILAKRFFIYF 60  
Db 527 SOLYVMSL-LVANVLAFLVIGCTTHIVLVNPNNTSS-----SSDTKAKMAVLIF 579  
Oy 61 TDALCWIPF-FVAKPLSLQVEIPGTTTSWVIGYSAINSALNPILYTLTTRPFKMIHR 115  
Db 580 TDFLCMAPIFFPAISAKVPLITVNSKAKILVLFYVNSCANPFLYAIPTKAFRDFEI 639







```

Db 598 AQQVYIISVL-LNLAFLVICCTCYKICCAVHNPPYCSG-----SKDNIARKMALILF 650
Oy 61 TDALCWIPI-----FAKPLSLQVIEPGTITSVWIGSAINSLNPLIYLTTRPF 113
Db 651 TDFLCMAPIFYMSAVVDRPL-----ITVNSKILLVLPYFNPSGAMPFLYALFTKAF 704
Oy 114 K 114
Db 705 R 705

RESULT 14
JC2237
Follicotropin receptor, testis - horse
N:Alternate names: eFSHR
C:Species: Equus caballus (domestic horse)
C>Date: 26-Aug-1985 #sequence, revision 07-Oct-1994 #text_change 13-Aug-1999
C:Accession: JC2237; JC2370
R:Robert, P.; Amselem, S.; Christophe, S.; Benifla, J.L.; Bellet, D.; Koman, A.; Bidart
  Chem. Biophys. Res. Commun. 201, 201-207, 1994
A:Title: Cloning and sequencing of the equine testicular follicotropin receptor.
A:Reference number: JC2237; MUID:94256980; PMID:8198575
A:Accession: JC2237
A:Molecule type: mRNA
A:Residues: 1-694 <ROB>
A:Cross-references: GB:S70150; NID:9546896; PIDN:AA30854.1; PID:9546897
A:Experimental source: testis
C:Superfamily: glycoprotein hormone receptor; leucine-rich alpha-2-glycoprotein repeat h
F:66-70/Domain: leucine-rich alpha-2-glycoprotein repeat homology <LRR1>
F:71-96/Domain: leucine-rich alpha-2-glycoprotein repeat homology <LRR2>
F:96-120/Domain: leucine-rich alpha-2-glycoprotein repeat homology <LRR3>
F:121-145/Domain: leucine-rich alpha-2-glycoprotein repeat homology <LRR4>
F:146-169/Domain: leucine-rich alpha-2-glycoprotein repeat homology <LRR5>
F:172-193/Domain: leucine-rich alpha-2-glycoprotein repeat homology <LRR6>
F:194-218/Domain: leucine-rich alpha-2-glycoprotein repeat homology <LRR7>
F:265-286/Domain: transmembrane #status predicted <TM1>
F:298-320/Domain: transmembrane #status predicted <TM2>
F:343-364/Domain: transmembrane #status predicted <TM3>
F:485-507/Domain: transmembrane #status predicted <TM4>
F:528-549/Domain: transmembrane #status predicted <TM5>
F:573-596/Domain: transmembrane #status predicted <TM6>
F:608-629/Domain: transmembrane #status predicted <TM7>
F:191,199,266,293/Binding site: carbohydrate (Asn) (covalent) #status predicted

Query Match 15.9%; Score 131.5; DB 2; Length 694;
Best Local Similarity 26.5%; Pred. No. 2,3e-05;
Matches 43; Conservative 32; Mismatches 60; Indels 27; Gaps 6;

1 AQTYSVAIFGIMLAFIIVSGSMFYSVHQSATITATEIRNQVKEMILAKRFFIIVF 60
Oy 526 SOLYVMSL-LVNLVLAFLVYICGCIHYLVTRNPNISS-----SSDRIKAKMALILF 578
Db 526 SOLYVMSL-LVNLVLAFLVYICGCIHYLVTRNPNISS-----SSDRIKAKMALILF 578

61 TDALCWIPI-FVAKPLSLQVIEPGTITSVWIGSAINSLNPLIYLTTRPF----- 115
Db 579 TDFLCMAPIFYMSAVVDRPL-----ITVNSKILLVLPYFNPSGAMPFLYALFTKAF 638
Oy 116 MIHRFV-----HNYRQRKSMDSKGIKRMILHSSGKCGHC 151
Db 639 LLSKFCYEMQQLVTRTSSSTA-----HISPRNGHC 671

RESULT 15
QHURUT
Lutropin-choriogonadotropin receptor precursor - human
N:Alternate names: luteinizing hormone-choriogonadotropin receptor
C:Species: Homo sapiens (man)
C>Date: 22-Jan-1993 #sequence, revision 16-Feb-1996 #text_change 22-Jun-1999
C:Accession: A36243; B36243; A23728; B36120
R:Minagishi, T.; Nakamura, K.; Takakura, Y.; Miyamoto, K.; Hasegawa, Y.; Iwaki, Y.; Igata
  Biochem. Biophys. Res. Commun. 172, 1049-1054, 1990
A:Title: Cloning and sequencing of human LH/hCG receptor cDNA.

```

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A:Reference number: A36243; MUID:91058534; PMID:2244890
A:Accession: A36243
A:Molecule type: mRNA
A:Residues: 1-699 <MIN>
A:Cross-references: GB:M63108; NID:9187135; PIDN:AAA59515.1; PID:9187136
A:Experimental source: ovary
A:Accession: B36243
A:Molecule type: mRNA
A:Residues: 1-226,290-699 <M12>
R:Jia, X.C.; Oikawa, M.; Bo, M.; Tanaka, T.; Ny, T.; Boime, I.; Hsueh, A.J.W.
  Mol. Endocrinol. 5, 759-768, 1991
A:Title: Expression of human luteinizing hormone (LH) receptor: interaction with LH and
A:Reference number: A23728; MUID:92017881; PMID:1922095
A:Accession: A23728
A:Molecule type: mRNA
A:Residues: 1-123,'R',125-311,'N',313-699 <JIA>
A:Cross-references: GB:S5793
A:Experimental source: ovary granulosa and luteal cells; thyroid
A>Note: 312-Ser was also found; the authors translated the codon UAC for residue 546 as J
R:Rizler, A.L.; Robbins, L.S.; Stork, P.J.; Sprengel, R.; Segaloff, D.L.; Cone, R.D.
  Mol. Endocrinol. 4, 1264-1276, 1990
A:Title: Isolation of TSH and LH/CG receptor cDNAs from human thyroid: regulation by tsh
A:Reference number: A36120; MUID:91155962; PMID:2223030
A:Accession: B36120
A:Status: not compared with conceptual translation
A:Molecule type: mRNA
A:Residues: 1-6,'P',8-18,'A',20-26,'R',29-43,'A',45,'A',47,'RPS',52-67,'S',69-123,'R',12
A:Cross-references: GB:M73746; NID:9303745; PIDN:AAA70231.1; PID:9303746
A:Experimental source: thyroid
R:Zhu, H.; Wang, H.; Ascoli, M.
  Mol. Endocrinol. 9, 141-150, 1995
A:Title: The lutropin/choriogonadotropin receptor is palmitoylated at intracellular cyst
A:Reference number: A57564; MUID:95295727; PMID:7776964
A:Contents: annotation; mutation analysis of palmitate binding sites
A:Gene: GDB:LMHGR
A:Cross-references: GDB:125260; OMIM:152790
A:Map position: 2p21-2p21
A:Introns: 226/3
A>Note: The exact position of the intron cannot be determined from the experimental data
C:Superfamily: glycoprotein hormone receptor; leucine-rich alpha-2-glycoprotein repeat h
C:Keywords: alternative splicing; G protein-coupled receptor; glycoprotein; hormone rece
F:1-699/Product: lutropin-choriogonadotropin receptor precursor, long splice form #statu
F:1-226,290-699/Product: lutropin-choriogonadotropin receptor precursor, short splice fo
F:1-22/Domain: signal sequence #status predicted <SIG>
F:23-64/Product: lutropin-choriogonadotropin receptor #status predicted <MAT>
F:23-363/Domain: extracellular hormone binding #status predicted <EHB>
F:50-73/Domain: leucine-rich alpha-2-glycoprotein repeat homology <LRR1>
F:74-98/Domain: leucine-rich alpha-2-glycoprotein repeat homology <LRR2>
F:99-123/Domain: leucine-rich alpha-2-glycoprotein repeat homology <LRR3>
F:124-148/Domain: leucine-rich alpha-2-glycoprotein repeat homology <LRR4>
F:149-173/Domain: leucine-rich alpha-2-glycoprotein repeat homology <LRR5>
F:176-197/Domain: leucine-rich alpha-2-glycoprotein repeat homology <LRR6>
F:198-222/Domain: leucine-rich alpha-2-glycoprotein repeat homology <LRR7>
F:264-285/Domain: transmembrane #status predicted <TM1>
F:296-319/Domain: transmembrane #status predicted <TM2>
F:336-357/Domain: transmembrane #status predicted <TM3>
F:441-462/Domain: transmembrane #status predicted <TM4>
F:483-505/Domain: transmembrane #status predicted <TM5>
F:526-547/Domain: transmembrane #status predicted <TM6>
F:571-594/Domain: transmembrane #status predicted <TM7>
F:606-627/Domain: transmembrane #status predicted <TM8>
F:645-699/Domain: carboxyl-terminal propeptide #status predicted <CTP>
F:99,174,195,291,299,313/Binding site: carbohydrate (Asn) (covalent) #status predicted
F:561,677/Binding site: phosphate (Thr) (covalent) (by protein kinase C) #status predicted
F:643,644/Binding site: palmitate (Cys) (covalent) #status experimental
F:670/Binding site: phosphate (Ser) (covalent) (by protein kinase C) #status predicted

Query Match 15.9%; Score 131; DB 1; Length 699;
Best Local Similarity 29.6%; Pred. No. 2,6e-05;
Matches 34; Conservative 25; Mismatches 48; Indels 8; Gaps 3;

1 AQTYSVAIFGIMLAFIIVSGSMFYSVHQSATITATEIRNQVKEMILAKRFFIIVF 60

```





GenCore version 5.1.3  
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OM protein - protein search, using sw model

Run on: February 3, 2003, 13:03:02 ; Search time 21 Seconds

(without alignments)  
310.085 Million cell updates/sec

Title: US-10-049-568-2

Sequence: 1 AQTYSVAIFKGINIAAFII.....HMLHSSGKGCRCRCHLS 157

Scoring table: BIOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 112892 seqs, 41476328 residues

1 number of hits satisfying chosen parameters: 112892

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Database : SwissProt\_40:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	638	77.2	757	1 LGR7_HUMAN	Q9hbx9 homo sapien
2	409	49.5	737	1 LGR8_MOUSE	Q91z25 mus musculu
3	392.5	47.5	754	1 LGR8_HUMAN	Q6wx40 homo sapien
4	207.5	25.1	1115	1 GPCR_LYMT	P46023 lymaea sta
5	143.5	17.4	695	1 FSHR_SHEEP	P53379 ovis aries
6	143	17.3	925	1 GHR_ANTPEL	P35409 anthopleura
7	141.5	17.1	695	1 FSHR_MACPA	P32212 macaca fasc
8	140.5	17.0	696	1 FSHR_PIG	P16582 sus scrofa
9	139.5	16.9	692	1 FSHR_PIG	P10395 ratu
10	139.5	16.9	695	1 FSHR_BOVIN	P53376 bos taurus
11	139	16.8	676	1 LSHR_CALJA	O02721 callithrix
12	136.5	16.5	695	1 FSHR_PIG	P49059 sus scrofa
13	134	16.2	700	1 LSHR_MOUSE	P30730 mus musculu
14	134	16.2	700	1 LSHR_MOUSE	P16233 ratu
15	132.5	16.0	692	1 FSHR_MOUSE	P35378 mus musculu
16	132	16.0	701	1 LSHR_BOVIN	Q28005 bos taurus
17	131.5	15.9	694	1 FSHR_HORSE	P28647 equus caball
18	131	15.9	693	1 FSHR_CHICK	P19763 gallus galli
19	131	15.9	699	1 LSHR_HUMAN	P22888 homo sapien
20	129	15.6	687	1 FSHR_EQUUS	Q95179 equus asinu
21	128.5	15.6	319	1 AA3R_MOUSE	O61618 mus musculu
22	128	15.5	320	1 AA3R_RAT	P28647 ratu
23	127	15.4	764	1 TSHR_SHEEP	P56495 ovis aries
24	125.5	15.2	695	1 FSHR_HUMAN	P23945 homo sapien
25	124	15.0	338	1 P21X_HUMAN	Q21531 homo sapien
26	124	15.0	763	1 TSHR_BOVIN	Q21987 bos taurus
27	124	15.0	764	1 TSHR_RAT	P21463 ratu
28	123	14.9	340	1 AA2B_CHICK	O13076 gallus galli
29	123	14.9	366	1 LSHR_CHICK	Q90674 gallus galli
30	122	14.8	764	1 TSHR_CANFA	P14763 canis fami
31	121	14.6	764	1 TSHR_MOUSE	P47750 mus musculu
32	119.5	14.5	332	1 AA2B_RAT	P23276 ratu
33	119.5	14.5	378	1 EDG3_HUMAN	Q99500 homo sapien

34	119.5	14.5	417	1 AA1B_CANFA	P11615 canis fami
35	119	14.4	519	1 AA1B_HUMAN	P35368 homo sapien
36	118.5	14.3	317	1 AA3R_SHEEP	P53342 ovis aries
37	118.5	14.3	338	1 P21X_MOUSE	O9696 mus musculu
38	118	14.3	332	1 AA2B_MOUSE	O60614 mus musculu
39	117.5	14.2	514	1 AA1B_MOUSE	P97717 mus musculu
40	117.5	14.2	515	1 AA1B_MESAU	P18841 mesocricetu
41	117.5	14.2	515	1 AA1B_RAT	P15823 ratu
42	117.5	14.2	522	1 NFEP2_HUMAN	O955x5 homo sapien
43	117	14.2	326	1 AA1R_BOVIN	P28190 bos taurus
44	117	14.2	326	1 AA1R_CAVPO	P47745 cavia porce
45	117	14.2	332	1 AA2B_HUMAN	P23275 homo sapien

## ALIGNMENTS

```

RESULT 1
LGR7_HUMAN          STANDARD;          PRT;          757 AA.
ID LGR7_HUMAN
AC Q9HDX9;
DT 15-JUN-2002 (Rel. 41, Created)
DT 15-JUN-2002 (Rel. 41, Last sequence update)
DT 15-JUN-2002 (Rel. 41, Last annotation update)
DE Relaxin receptor 1 (leucine-rich repeat-containing G protein-coupled
  receptor 7).
GN LGR7.
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.
OX NCBI_Taxid=9606;
RN [1]
RP SEQUENCE FROM N.A. (ISOFORMS 1 AND 2), AND MUTAGENESIS OF ASP-637.
RX MEDLINE=20388592; PubMed=10935549;
RA Hsu S.Y., Kudo M., Chen T., Nakabayashi K., Bhalla A.,
RA van der Spek P.J., van Duin M., Heuvel A.J.W.;
RT "The three subfamilies of leucine-rich repeat-containing G protein-
RT coupled receptors (LGR): identification of LGR6 and LGR7 and the
RT signaling mechanism for LGR7".
RL Mol. Endocrinol. 14:1257-1271(2000).
RN [2]
RX CHARACTERIZATION.
RX PubMed=11517286;
RA Bartesch O., Bartlick B., Iweil R.;
RT "Relaxin signalling links tyrosine phosphorylation to
RT phosphodiesterase and adenylyl cyclase activity.";
RL Mol. Hum. Reprod. 7:799-809(2001).
CC -1- FUNCTION: Receptor for relaxin. The activity of this receptor is
CC mediated by G proteins leading to stimulation of adenylyl cyclase
CC and an increase of cAMP. Binding of the ligand may also
CC activate a tyrosine kinase pathway that inhibits the activity of a
CC phosphodiesterase that degrades cAMP.
CC -1- SUBCELLULAR LOCATION: Integral membrane protein.
CC -1- ALTERNATIVE PRODUCTS: 2 isoforms; 1 (shown here) and 2; are
CC produced by alternative splicing.
CC -1- TISSUE SPECIFICITY: Expressed in the brain, kidney, testis,
CC placenta, uterus, ovary, adrenal, prostate, skin and heart. Not
CC detected in spleen.
CC -1- SIMILARITY: BELONGS TO FAMILY 1 OF G-PROTEIN COUPLED RECEPTORS.
CC -1- SIMILARITY: CONTAINS 1 LDL-RECEPTOR CLASS A DOMAIN.
CC -1- SIMILARITY: CONTAINS 10 LEUCINE-RICH REPEATS (LRR).
CC -----
CC This SWISS-PROT entry is copyrighted. It is produced through a collaboration
CC between the Swiss Institute of Bioinformatics and the EMBL outstation -
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CC -----
DR EMBL; A0190500; A0191767.1; -
DR MIM; 606654; -
DR HSSP; P01130; ILDR.

```

	DR	InterPro; IPR000276; GPCR_Rhodop.
	DR	InterPro; IPR002172; LDL_Recept_A.
	DR	InterPro; IPR001611; LRR.
	DR	InterPro; IPR000372; LRR_Nterm.
	DR	InterPro; IPR003592; LRR_out.
	DR	InterPro; IPR003591; LRR_typ.
	DR	Pfam; PF00001; 7tm_1; 1.
	DR	Pfam; PF00057; Id1_recept_a; 1.
	DR	Pfam; PF00560; LRR; 8.
	DR	PRINTS; PR00237; GPCRRHODOPSN.
	DR	SMART; SMO0192; LDLa; 1.
	DR	SMART; SMO0370; LRR; 7.
	DR	SMART; SMO0013; LRRT; 1.
	DR	SMART; SMO0369; LRR_TYP; 10.
	DR	PROSITE; PS00237; G_PROTEIN_REC_P1; FALSE_NEG.
	DR	PROSITE; PSS0262; G_PROTEIN_REC_P1_2; 1.
	DR	PROSITE; PSS01209; LDLRa_1; 1.
	DR	PROSITE; PSS00068; LDLRa_2; 1.
	KW	G-protein coupled receptor; Transmembrane; Glycoprotein; Repeat; Leucine-rich repeat; Alternative splicing.
	DOMAIN	1 409 EXTRACELLULAR (POTENTIAL).
	TRANSSEM	410 430 1 (POTENTIAL).
	FT	DOMAIN 431 443 CYTOPLASMIC (POTENTIAL).
	FT	TRANSSEM 444 464 2 (POTENTIAL).
	FT	DOMAIN 465 486 EXTRACELLULAR (POTENTIAL).
	FT	TRANSSEM 487 507 3 (POTENTIAL).
	FT	DOMAIN 508 527 CYTOPLASMIC (POTENTIAL).
	FT	TRANSSEM 528 548 4 (POTENTIAL).
	FT	DOMAIN 549 577 EXTRACELLULAR (POTENTIAL).
	FT	TRANSSEM 578 598 5 (POTENTIAL).
	FT	DOMAIN 599 629 CYTOPLASMIC (POTENTIAL).
	FT	TRANSSEM 630 650 6 (POTENTIAL).
	FT	DOMAIN 651 651 EXTRACELLULAR (POTENTIAL).
	FT	TRANSSEM 652 672 7 (POTENTIAL).
	FT	DOMAIN 673 757 CYTOPLASMIC (POTENTIAL).
	FT	DOMAIN 757 757 LDL-RECEPTOR CLASS A.
	FT	DOMAIN 757 757 LRR 1.
	FT	REPEAT 125 148 LRR 2.
	FT	REPEAT 150 172 LRR 3.
	FT	REPEAT 173 196 LRR 4.
	FT	REPEAT 198 220 LRR 5.
	FT	REPEAT 221 244 LRR 6.
	FT	REPEAT 245 269 LRR 7.
	FT	REPEAT 270 293 LRR 8.
	FT	REPEAT 294 317 LRR 9.
	FT	REPEAT 319 341 LRR 10.
	FT	REPEAT 343 365 BY SIMILARITY.
	FT	DISULFID 485 563 N-LINKED (GLCNAC . .) (POTENTIAL).
	FT	CARBOHYD 36 36 N-LINKED (GLCNAC . .) (POTENTIAL).
	FT	CARBOHYD 127 127 N-LINKED (GLCNAC . .) (POTENTIAL).
	FT	CARBOHYD 264 264 N-LINKED (GLCNAC . .) (POTENTIAL).
	FT	CARBOHYD 272 272 N-LINKED (GLCNAC . .) (POTENTIAL).
	FT	CARBOHYD 325 325 N-LINKED (GLCNAC . .) (POTENTIAL).
	FT	CARBOHYD 368 368 N-LINKED (GLCNAC . .) (POTENTIAL).
	FT	VARSPLIC 63 96 GNNSNQGFQKRYFASYYKMTSGYFEAEETPECL -> V (IN ISOCORE 2).
	FT	MUTAGEN 637 637 D->V LEADS TO CONSTITUTIVE INCREASE OF BASAL CAMP.
	SEQUENCE	757 AA; 86992 MW; 8079BDBF3A3EF21 CRC64;
	Query Match	77.2%; Score 638; DB 1; Length 757;
	Best Local Similarity	94.8%; Pred. No. 7.2e-51;
	Matches 127; Conservative	1; Mismatches 6; Indels 0; Gaps 0
Oy	1	AQIVSAIFGINLAFIIIVSYSGMSPFSYHQSAITITEIRNOVKEMIAKEFFIIV 60
Db	576	AQIVSAIFGINLAFIIIVSYSGMSPFSYHQSAITITEIRNOVKEMIAKEFFIIV 635
Oy	61	TDLACWIPFVAKPESLLQVEIPGTTISVVVGYSAINSLNPILTYLTTRPPKEMTHRF 120
Db	636	TDLACWIPFIVAKFESLLQVEIPGTTISVVVFILPIINSALNPILTYLTTRPPKEMTHRF 695
Oy	121	WHNYRQRKSMDSKG 134

ID	NAME	STANDARD	PRT	737 AA
DB	696	WTNYRORXMSKSG	709	
RESULT 2				
LG88	MOUSE			
AC	091Z5;			
DT	15-JUN-2002 (Rel. 41, Created)			
DT	15-JUN-2002 (Rel. 41, Last sequence update)			
DT	15-JUN-2002 (Rel. 41, Last annotation update)			
DE	Relaxin receptor 2 (leucine-rich repeat-containing G protein-coupled receptor 8) (G protein-coupled receptor affecting testicular descent) (G protein-coupled receptor 106).			
GN	LG88 OR GREAT OR GPR106.			
OS	Mus musculus (Mouse).			
OC	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Mus.			
OX	NCBI_TaxId=10090;			
RA	[1]			
RP	SEQUENCE FROM N.A.			
RX	STRAIN=C57BL/6;			
RX	MEDLINE=21250990; PubMed=11353515;			
RA	Overbeek P.A., Gorlov I.P., Sutherland R.W., Houston J.B., Harrison W.R., Beutger-Tong H.L., Bishop C.E., Agoulnik A.I., "A transgenic insertion causing cryptorchidism in mice",			
RL	Genesis 30:26-35(2001)			
CC	- FUNCTION: Receptor for relaxin. The activity of this receptor is mediated by G proteins leading to stimulation of adenylate cyclase and an increase of cAMP. May also be a receptor for Leydig			
CC	insulin-like peptide (INSI3) (By similarity).			
CC	- SUBCELLULAR LOCATION: Integral membrane protein.			
CC	- TISSUE SPECIFICITY: Expressed in embryonic and adult gonads of males and females, as well in male gubernaculum. Expressed also			
CC	in brain. Not detected in kidney, spleen and heart.			
CC	- DISEASE: Detects in LG88 seems to be a cause of impaired			
CC	testicular descent (known as cryptorchidism).			
CC	- SIMILARITY: BELONGS TO FAMILY 1 OF G-PROTEIN COUPLED RECEPTORS.			
CC	- SIMILARITY: CONTAINS 1 LDL-RECEPTOR CLASS A DOMAIN.			
CC	- SIMILARITY: CONTAINS 10 LEUCINE-RICH REPEATS (LRR).			
CC	- MISCELLANEOUS: By homology with the human sequence, it is uncertain whether Met-1 is the initiator.			
CC	-----			
CC	This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation - the European Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial entities requires a license agreement (See <a href="http://www.isb-sib.ch/announce">http://www.isb-sib.ch/announce</a> or send an email to <a href="mailto:license@isb-sib.ch">license@isb-sib.ch</a> ).			
CC	-----			
DR	EMBL; AF346501; AAL08943.1; -			
DR	MED; MG1:2153463; GPR106.			
DR	InterPro; IPR000276; GPCR_Rhodopsn.			
DR	InterPro; IPR002172; LDL_Recept_A.			
DR	InterPro; IPR001611; LRR_Nterm.			
DR	Pfam; PF00001; 7tm_1; 1.			
DR	Pfam; PF00057; ldl_recept_a; 1.			
DR	Pfam; PF00560; LRR; 8.			
DR	SMART; SMO0013; LRRNT; 1.			
DR	PROSITE; PSS0262; G-PROTEIN RECP_F1_2; 1.			
DR	PROSITE; PSS0208; LDLRA_1; 1.			
DR	PROSITE; PSS0068; LDLRA_2; 1.			
KW	G-protein coupled receptor; Transmembrane; Glycoprotein; Repeat; Leucine-rich repeat.			
KW	DOMAIN	1	399	EXTRACELLULAR (POTENTIAL).
FT	TRANSNEM	400	420	1 (POTENTIAL).
FT	DOMAIN	421	438	CYTOPLASMIC (POTENTIAL).
FT	TRANSNEM	439	459	2 (POTENTIAL).
FT	DOMAIN	460	490	EXTRACELLULAR (POTENTIAL).
FT	TRANSNEM	491	511	3 (POTENTIAL).
FT	DOMAIN	512	520	CYTOPLASMIC (POTENTIAL).
FT	TRANSNEM	521	541	4 (POTENTIAL).

```

FT DOMAIN 542 575 EXTRACELLULAR (POTENTIAL).
FT TRANSSEM 576 596 5 (POTENTIAL).
FT DOMAIN 597 622 CYTOPLASMIC (POTENTIAL).
FT TRANSSEM 623 643 6 (POTENTIAL).
FT DOMAIN 644 644 EXTRACELLULAR (POTENTIAL).
FT TRANSSEM 645 665 7 (POTENTIAL).
FT DOMAIN 666 737 CYTOPLASMIC (POTENTIAL).
FT DOMAIN 27 64 LDL-RECEPTOR CLASS A.
FT REPEAT 119 142 LRR 1.
FT REPEAT 144 166 LRR 2.
FT REPEAT 167 190 LRR 3.
FT REPEAT 192 214 LRR 4.
FT REPEAT 215 238 LRR 5.
FT REPEAT 239 262 LRR 6.
FT REPEAT 263 286 LRR 7.
FT REPEAT 287 310 LRR 8.
FT REPEAT 312 334 LRR 9.
FT REPEAT 335 358 LRR 10.
FT DISULFID 478 556 BY SIMILARITY.
FT CARBOHYD 37 37 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 121 121 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 257 257 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 318 318 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 350 350 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 361 361 N-LINKED (GLCNAC. . .) (POTENTIAL).
SQ SEQUENCE 737 AA; 82943 MW; AF60F635EALACE49 CRC64;

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Query Match 49.5%; Score 409; DB 1; Length 737;
Best Local Similarity 58.9%; Pred. No. 5.7e-30;
Matches 73; Conservative 27; Mismatches 24; Indels 0; Gaps 0;

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Qy 4 YSVAIFLGINIAFIIVSYGSMFYSHQSAITATEIRNOKKEMILAKRPFPIVETDA 63
Db 572 YSLGIPGVNLLAFVLIVISYVTFSCIHKLQTAIVRSIHGVEAVARFFPIVSDA 631
Qy 64 LCMPIPIPAKLSLLQVEIPETITSVVIGSAINSAINPLIYLLTPPKEMIRHWHN 123
Db 632 ICMPIPVFKILSLQVEIPETITSVVIFPLPVNSALNPLIYLLTSPFCDKLQKLLRK 691
Qy 124 YROR 127
Db 692 HRRK 695

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RESULT 3
LGR8 HUMAN STANDARD; PRT; 754 AA.
Q8WKO;
15-JUN-2002 (Rel. 41, Created)
15-JUN-2002 (Rel. 41, Last sequence update)
15-JUN-2002 (Rel. 41, Last annotation update)
DB Relaxin receptor 2 (Leucine-rich repeat-containing G protein-coupled
receptor 8) (G protein-coupled receptor affecting testicular descent).
LGR8 OR GREAT.
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
OX NCBI_TaxId=9606;
RN [1]
SEQUENCE FROM N.A., AND MUTAGENESIS OF ASP-647.
RX MEDLINE=21669315; PubMed=11809971;
RA Hsu S.Y., Nakabayashi K., Nishi S., Kumagai J., Kudo M.,
RA Sherwood O.D., Heuvel A.J.W.;
RT "Activation of orphan receptors by the hormone relaxin.";
RL Science 295:671-674(2002).
RN [2]
SEQUENCE FROM N.A.
RA Gorlov I.P., Kamat A., Jones E., Lamb D., Truong A., Bogatcheva N.,
RA Bishop C.B., McElreavey K., Agoulnik A.I.;
RT "Mutations of the GREAT gene cause cryptorchidism.";
RL Submitted (NOV-2001) to the EMBL/GenBank/DBJ databases.
CC -!- FUNCTION: Receptor for relaxin. The activity of this receptor is
mediated by G proteins leading to stimulation of adenylate cyclase

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CC and an increase of cAMP. May also be a receptor for Leydig
CC insulin-like peptide (INSI3).
CC -!- SUBCELLULAR LOCATION: Integral membrane protein.
CC -!- TISSUE SPECIFICITY: Expressed mainly in the brain kidney, muscle,
CC testis, thyroid, uterus, peripheral blood cells and bone marrow.
CC -!- DISEASE: Defects in LGR8 seems to be a cause of impaired
CC testicular descent (known as cryptorchidism). It is one of the
CC most frequent congenital abnormalities in humans, involving 2-5%
CC of male births. Cryptorchidism is associated with increased risk
CC of infertility and testicular cancer.
CC -!- SIMILARITY: BELONGS TO FAMILY 1 OF G-PROTEIN COUPLED RECEPTORS.
CC -!- SIMILARITY: CONTAINS 10 LEUCINE-RICH REPEATS (LRR).
CC -!- CAUTION: It is uncertain whether Met-1 or Met-18 is the initiator.
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CC or send an email to license@ebi.ac.uk).
CC -----
CC EMBL; AF403384; AAL69324.2; -.
CC EMBL; AF453828; AAL73946.1; -.
CC MIM; 606655; -.
CC DR MIM; 219050; -.
CC DR InterPro: IPR000276; GPCR_Rhodopsn.
CC DR InterPro: IPR002172; LDL_Recept_A.
CC DR InterPro: IPR001611; LRR.
CC DR InterPro: IPR003591; LRR_Typ.
CC DR Pfam; PF00001; 7tm_1; 1.
CC DR Pfam; PF00057; 1d1_recept_a; 1.
CC DR Pfam; PF00560; LRR; 8.
CC DR PRINTS; PR00237; GPCR_RHODOPS.
CC DR PRINTS; PR00019; LRRICHRPT.
CC DR SMART; SM00192; LDL1; 1.
CC DR SMART; SM00369; LRR_Typ; 10.
CC DR PROSITE; PS00237; G-PROTEIN RECEPTOR_F1; FALSE_NEG.
CC DR PROSITE; PS02662; G-PROTEIN RECEPTOR_F1_2; 1.
CC DR PROSITE; PS01209; LDLRA_1; 1.
CC DR PROSITE; PS0068; LDLRA_2; 1.
CC DR G-protein coupled receptor; Transmembrane; Glycoprotein; Repeat;
CC Leucine-rich repeat.
CC KW
FT DOMAIN 1 416 EXTRACELLULAR (POTENTIAL).
FT TRANSSEM 417 437 1 (POTENTIAL).
FT DOMAIN 438 455 CYTOPLASMIC (POTENTIAL).
FT TRANSSEM 456 476 2 (POTENTIAL).
FT DOMAIN 477 507 EXTRACELLULAR (POTENTIAL).
FT TRANSSEM 508 528 3 (POTENTIAL).
FT DOMAIN 529 537 CYTOPLASMIC (POTENTIAL).
FT TRANSSEM 538 558 4 (POTENTIAL).
FT DOMAIN 559 592 EXTRACELLULAR (POTENTIAL).
FT TRANSSEM 593 613 5 (POTENTIAL).
FT DOMAIN 614 639 CYTOPLASMIC (POTENTIAL).
FT TRANSSEM 640 660 6 (POTENTIAL).
FT DOMAIN 661 673 EXTRACELLULAR (POTENTIAL).
FT TRANSSEM 674 694 7 (POTENTIAL).
FT DOMAIN 695 754 CYTOPLASMIC (POTENTIAL).
FT TRANSSEM 755 81 LDL-RECEPTOR CLASS A.
FT DOMAIN 81 159 LRR 1.
FT REPEAT 136 159 LRR 2.
FT REPEAT 161 183 LRR 3.
FT REPEAT 184 207 LRR 4.
FT REPEAT 209 231 LRR 5.
FT REPEAT 233 255 LRR 6.
FT REPEAT 256 279 LRR 7.
FT REPEAT 281 303 LRR 8.
FT REPEAT 304 327 LRR 9.
FT REPEAT 329 351 LRR 10.
FT DISULFID 352 375 BY SIMILARITY.
FT CARBOHYD 485 573 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 54 138 N-LINKED (GLCNAC. . .) (POTENTIAL).

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DR	Pfam; PF00001; 7tm_1, 1.	
DR	Pfam; PF00057; ldl_recept_a; 11.	
DR	Pfam; PF00560; LRR; 6.	
DR	Pfam; PF01462; LRRNT; 1.	
DR	PRINTS; PR00237; GPCRHHODPSN.	
DR	PRINTS; PR00261; LDLARECEPTOR.	
DR	SMART; SM00192; LDLa; 12.	
DR	SMART; SM00370; LRR; 2.	
DR	SMART; SM00013; LRRNT; 1.	
DR	SMART; SM00369; LRR_TYP; 1.	
DR	PROSITE; PS00237; G_PROTEIN_RECPEP_F1_1; FALSE_NEG.	
DR	PROSITE; PS02452; G_PROTEIN_RECPEP_F1_2; 1.	
DR	PROSITE; PS01209; LDLRA_1; 6.	
DR	PROSITE; PS00068; LDLRA_2; 11.	
KW	G-protein coupled receptor; Transmembrane; Glycoprotein; Repeat; Leucine-rich repeat; Signal.	
FT	SIGNAL	1 24
FT	CHAIN	25 1115
FT	DOMAIN	25 767
FT	TRANSMEM	768 788
FT	DOMAIN	789 801
FT	TRANSMEM	802 822
FT	DOMAIN	823 857
FT	TRANSMEM	858 878
FT	DOMAIN	879 887
FT	TRANSMEM	888 908
FT	DOMAIN	909 941
FT	TRANSMEM	942 962
FT	DOMAIN	963 988
FT	TRANSMEM	989 1009
FT	DOMAIN	1010 1017
FT	TRANSMEM	1018 1038
FT	DOMAIN	1039 1115
FT	DOMAIN	32 523
FT	DOMAIN	36 79
FT	DOMAIN	77 115
FT	DOMAIN	116 155
FT	DOMAIN	156 196
FT	DOMAIN	195 232
FT	DOMAIN	231 269
FT	DOMAIN	272 318
FT	DOMAIN	320 363
FT	DOMAIN	365 403
FT	DOMAIN	404 442
FT	DOMAIN	444 485
FT	DOMAIN	486 525
FT	REPEAT	557 579
FT	REPEAT	582 605
FT	REPEAT	607 629
FT	REPEAT	630 653
FT	REPEAT	655 677
FT	REPEAT	678 701
FT	REPEAT	703 725
FT	DISUPEID	38 53
FT	DISUPEID	46 66
FT	DISUPEID	60 77
FT	DISUPEID	79 91
FT	DISUPEID	86 104
FT	DISUPEID	98 113
FT	DISUPEID	118 131
FT	DISUPEID	138 153
FT	DISUPEID	158 170
FT	DISUPEID	165 183
FT	DISUPEID	177 194
FT	DISUPEID	202 220
FT	DISUPEID	214 230
FT	DISUPEID	233 245
FT	DISUPEID	240 258
FT	DISUPEID	252 267
FT	DISUPEID	274 291
FT	DISUPEID	282 304
FT	DISUPEID	298 316

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FT DISULFID 322 339 BY SIMILARITY.
FT DISULFID 334 352 BY SIMILARITY.
FT DISULFID 346 361 BY SIMILARITY.
FT DISULFID 367 379 BY SIMILARITY.
FT DISULFID 374 392 BY SIMILARITY.
FT DISULFID 386 401 BY SIMILARITY.
FT DISULFID 406 418 BY SIMILARITY.
FT DISULFID 431 431 BY SIMILARITY.
FT DISULFID 425 440 BY SIMILARITY.
FT DISULFID 446 458 BY SIMILARITY.
FT DISULFID 453 474 BY SIMILARITY.
FT DISULFID 465 483 BY SIMILARITY.
FT DISULFID 488 500 BY SIMILARITY.
FT DISULFID 495 513 BY SIMILARITY.
FT DISULFID 507 523 BY SIMILARITY.
FT CARBOHYD 87 87 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 166 166 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 269 269 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 318 318 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 482 482 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 502 502 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 571 571 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 618 618 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 624 624 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 685 685 N-LINKED (GLCNAC. . .) (POTENTIAL).
SQ SEQUENCE 1115 AA; 125865 MW; E9BB012978C356C CRC64;

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Query Match 25.1%; Score 207.5; DB 1; Length 1115;
Best local Similarity 33.1%; Pred. No. 2.2e-11;
Matches 51; Conservative 25; Mismatches 45; Indels 33; Gaps 5;

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OY 4 YSAVALFGLNIAFLITIVPSVGSMEFVY---HQSATITAEIRNCKEMILLAKKPEFFIVF 60
DB 938 YSVALFGLNIAFLITIVPSVGSMEFVY---HQSATITAEIRNCKEMILLAKKPEFFIVF 992
OY 61 TDALCMIPFVAKPLSLQVEIPGTTTSWVVGSAINSALNPILYTTTRPF----- 113
DB 993 TDFCWMPTIVGFGVSLAGARDDQVMAMIAFVPLNSATNPVTYITLSTAPFLGNVAKR 1052
OY 114 -----KEMTHRP-----WNTYRCKRS 129
DB 1053 ANRFKRSFIHSFTGDKHSYVDGTTTHSYCEKRS 1086

RESULT 5
FSHR_SHEEP STANDARD; PRT; 695 AA.
P35379; Q28573; Q28574; Q9TS19;
01-JUN-1994 (Rel. 29, Created)
01-JUN-1994 (Rel. 29, Last sequence update)
15-JUN-2002 (Rel. 41, Last annotation update)
Follicle stimulating hormone receptor precursor (FSH-R) (Follictrophin
receptor).
GN FSHR.
OS Ovis aries (Sheep).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Cetartiodactyla; Ruminantia; Pecora; Bovidae;
OC Bovidae; Caprinae; Ovis.
OC NCBI_TaxID=9940;
RN [1]
RP SEQUENCE FROM N.A. (ISOFORM FSH-R1).
RC TISSUE=Testis;
RX MEDLINE=93351750; PubMed=8394255;
RA Varney T.A., Saitam M.R., Khan H., Ravindranath N., Payne S.,
RA Seidah N.G.;
RA "Molecular cloning and expression of the ovine testicular follicle
stimulating hormone receptor."
RL Mol. Cell. Endocrinol. 93:219-226(1993).
RN [2]
RP SEQUENCE FROM N.A. (ISOFORMS FSH-R4 AND FSH-R3).
RC STRAIN=Dorset-Leicester-Suffolk 1; TISSUE=Testis;
RX MEDLINE=93176195; PubMed=8439338;
RA Khan H., Varney T.A., Saitam M.R.;

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RT "Cloning of alternatively spliced mRNA transcripts coding for variants
RT of ovine testicular follictrophin receptor lacking the G protein
RL Biochem. Biophys. Res. Commun. 190:888-894(1993).
RN [3]
RP SEQUENCE FROM N.A. (ISOFORM FSH-R2), AND CHARACTERIZATION.
RC STRAIN=Dorset-Leicester-Suffolk 1; TISSUE=Testis;
RX MEDLINE=98031015; PubMed=9364440;
RA Varney T.A., Jiang L., Khan H., Macdonald E.A., Laird D.W.,
RA Saitam M.R.;
RA "Molecular cloning, structure, and expression of a testicular
RT follictrophin receptor with selective alteration in the carboxy terminus
RT that affects signaling function."
RL Mol. Reprod. Dev. 48:458-470(1997).
RN [4]
RP SEQUENCE FROM N.A. (ISOFORM FSH-R3), AND CHARACTERIZATION.
RC STRAIN=Dorset-Leicester-Suffolk 1; TISSUE=Ovary;
RX MEDLINE=20391225; PubMed=10527886;
RA Babu P.S., Jiang L., Saitam A.M., Touyz R.M., Saitam M.R.;
RT "Structural features and expression of an alternatively spliced growth
RT factor type I receptor for follictrophin signaling in the developing
RT ovary."
RL Mol. Cell Biol. Res. Commun. 2:21-27(1999).
RN [5]
RP SEQUENCE OF 1-51 FROM N.A.
RX MEDLINE=98031017; PubMed=9364442;
RA Saitam M.R., Subbarayan V.S.R.;
RT "Characterization of the 5' flanking region and potential control
RT elements of the ovine follictrophin receptor gene."
RL Mol. Reprod. Dev. 48:480-487(1997).
CC -1- FUNCTION: Receptor for follicle stimulating hormone. The activity
CC of isoform FSH-R1 is mediated by G proteins which activate
CC adenylyate cyclase. Isoforms FSH-R2 and FSH-R3 also bind FSH, but
CC this does not result in activation of adenylyate cyclase. Isoform
CC FSH-R3 may be involved in calcium signaling.
CC -1- SUBCELLULAR LOCATION: Integral membrane protein. Plasma membrane
CC (isoforms FSH-R1 and FSH-R2); Cell surface (isoform FSH-R3).
CC -1- ALTERNATIVE PRODUCTS: 4 isoforms; FSH-R1 (shown here), FSH-R2,
CC FSH-R3 and FSH-R4; are produced by alternative splicing.
CC -1- TISSUE SPECIFICITY: Isoform FSH-R3 is expressed in ovary and
CC testis, but not in kidney.
CC -1- SIMILARITY: BELONGS TO FAMILY 1 OF G-PROTEIN COUPLED RECEPTORS.
CC FSH/LSH/TSH SUBFAMILY.
CC -1- SIMILARITY: CONTAINS 6 LEUCINE-RICH REPEATS (LRR).
CC -----
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CC -----
DR EMBL; L07302; AAA31525.1; -
DR EMBL; L12766; AAA31523.1; -
DR EMBL; L12767; AAA31524.1; -
DR EMBL; L36115; AAK70667.1; -
DR EMBL; AF0131735; CAA10495.1; -
DR EMBL; AF090438; AAC61749.1; -
DR PIR; JCI493; JCI493.
DR HSP; P23945; 1XUN.
DR Interpro; IPR000276; GPCR_Rhodopn.
DR Interpro; IPR001611; LRR.
DR Interpro; IPR000372; LRR_Nterm.
DR Pfam; PF00501; 7tm_1; 1.
DR Pfam; PF00560; LRR_4.
DR Pfam; PF01462; LRRNT; 1.
DR SMART; SM00013; LRRNT; 1.
DR PROSITE; PS00237; G_PROTEIN_RECP_F1_1; 1.
DR PROSITE; PS00262; G_PROTEIN_RECP_F1_2; 1.
DR G-protein coupled receptor; Transmembrane; Glycoprotein; Signal;
KW Phosphorylation; Repeat; Leucine-rich repeat; Alternative splicing.
FT SIGNAL 1 17 POTENTIAL.

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FT	CHAIN	18	695	FOLLICLE STIMULATING HORMONE RECEPTOR.
FT	DOMAIN	18	365	EXTRACELLULAR (POTENTIAL).
FT	TRANSMEM	367	367	1 (POTENTIAL).
FT	DOMAIN	368	398	2 (POTENTIAL).
FT	TRANSMEM	399	421	3 (POTENTIAL).
FT	DOMAIN	422	443	4 (POTENTIAL).
FT	TRANSMEM	444	465	5 (POTENTIAL).
FT	DOMAIN	466	485	6 (POTENTIAL).
FT	TRANSMEM	486	508	7 (POTENTIAL).
FT	DOMAIN	509	528	8 (POTENTIAL).
FT	TRANSMEM	529	550	9 (POTENTIAL).
FT	DOMAIN	551	573	10 (POTENTIAL).
FT	TRANSMEM	574	597	11 (POTENTIAL).
FT	DOMAIN	598	608	12 (POTENTIAL).
FT	TRANSMEM	609	630	13 (POTENTIAL).
FT	DOMAIN	631	695	14 (POTENTIAL).
FT	REPEAT	44	68	15 (POTENTIAL).
FT	REPEAT	69	93	16 (POTENTIAL).
FT	REPEAT	119	143	17 (POTENTIAL).
FT	REPEAT	170	192	18 (POTENTIAL).
FT	REPEAT	193	216	19 (POTENTIAL).
FT	REPEAT	218	240	20 (POTENTIAL).
FT	DISULFID	442	517	21 (POTENTIAL).
FT	CAROHYD	191	191	22 (POTENTIAL).
FT	CAROHYD	199	199	23 (POTENTIAL).
FT	CAROHYD	293	293	24 (POTENTIAL).
FT	VARSPLIC	126	133	25 (POTENTIAL).
FT	VARSPLIC	135	695	26 (POTENTIAL).
FT	VARSPLIC	224	259	27 (POTENTIAL).
FT	VARSPLIC	260	695	28 (POTENTIAL).
FT	VARSPLIC	643	670	29 (POTENTIAL).
FT	VARSPLIC	671	695	30 (POTENTIAL).
FT	SEQUENCE	695 AA;	78237 MW;	31 (POTENTIAL).
FT	SEQUENCE	695 AA;	78237 MW;	32 (POTENTIAL).
FT	SEQUENCE	695 AA;	78237 MW;	33 (POTENTIAL).
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FT	SEQUENCE	695 AA;	78237 MW;	45 (POTENTIAL).
FT	SEQUENCE	695 AA;	78237 MW;	46 (POTENTIAL).
FT	SEQUENCE	695 AA;	78237 MW;	47 (POTENTIAL).
FT	SEQUENCE	695 AA;	78237 MW;	48 (POTENTIAL).
FT	SEQUENCE	695 AA;	78237 MW;	49 (POTENTIAL).
FT	SEQUENCE	695 AA;	78237 MW;	50 (POTENTIAL).
FT	SEQUENCE	695 AA;	78237 MW;	51 (POTENTIAL).
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FT	SEQUENCE	695 AA;	78237 MW;	64 (POTENTIAL).
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FT	SEQUENCE	695 AA;	78237 MW;	67 (POTENTIAL).
FT	SEQUENCE	695 AA;	78237 MW;	68 (POTENTIAL).
FT	SEQUENCE	695 AA;	78237 MW;	69 (POTENTIAL).
FT	SEQUENCE	695 AA;	78237 MW;	70 (POTENTIAL).
FT	SEQUENCE	695 AA;	78237 MW;	71 (POTENTIAL).
FT	SEQUENCE	695 AA;	78237 MW;	72 (POTENTIAL).
FT	SEQUENCE	695 AA;	78237 MW;	73 (POTENTIAL).
FT	SEQUENCE	695 AA;	78237 MW;	74 (POTENTIAL).
FT	SEQUENCE	695 AA;	78237 MW;	75 (POTENTIAL).
FT	SEQUENCE	695 AA;	78237 MW;	76 (POTENTIAL).
FT	SEQUENCE	695 AA;	78237 MW;	77 (POTENTIAL).
FT	SEQUENCE	695 AA;	78237 MW;	78 (POTENTIAL).
FT	SEQUENCE	695 AA;	78237 MW;	79 (POTENTIAL).
FT	SEQUENCE	695 AA;	78237 MW;	80 (POTENTIAL).
FT	SEQUENCE	695 AA;	78237 MW;	81 (POTENTIAL).
FT	SEQUENCE	695 AA;	78237 MW;	82 (POTENTIAL).
FT	SEQUENCE	695 AA;	78237 MW;	83 (POTENTIAL).
FT	SEQUENCE	695 AA;	78237 MW;	84 (POTENTIAL).
FT	SEQUENCE	695 AA;	78237 MW;	85 (POTENTIAL).
FT	SEQUENCE	695 AA;	78237 MW;	86 (POTENTIAL).
FT	SEQUENCE	695 AA;	78237 MW;	87 (POTENTIAL).
FT	SEQUENCE	695 AA;	78237 MW;	88 (POTENTIAL).
FT	SEQUENCE	695 AA;	78237 MW;	89 (POTENTIAL).
FT	SEQUENCE	695 AA;	78237 MW;	90 (POTENTIAL).
FT	SEQUENCE	695 AA;	78237 MW;	91 (POTENTIAL).
FT	SEQUENCE	695 AA;	78237 MW;	92 (POTENTIAL).
FT	SEQUENCE	695 AA;	78237 MW;	93 (POTENTIAL).
FT	SEQUENCE	695 AA;	78237 MW;	94 (POTENTIAL).
FT	SEQUENCE	695 AA;	78237 MW;	95 (POTENTIAL).
FT	SEQUENCE	695 AA;	78237 MW;	96 (POTENTIAL).
FT	SEQUENCE	695 AA;	78237 MW;	97 (POTENTIAL).
FT	SEQUENCE	695 AA;	78237 MW;	98 (POTENTIAL).
FT	SEQUENCE	695 AA;	78237 MW;	99 (POTENTIAL).
FT	SEQUENCE	695 AA;	78237 MW;	100 (POTENTIAL).
FT	SEQUENCE	695 AA;	78237 MW;	101 (POTENTIAL).
FT	SEQUENCE	695 AA;	78237 MW;	102 (POTENTIAL).
FT	SEQUENCE	695 AA;	78237 MW;	103 (POTENTIAL).
FT	SEQUENCE	695 AA;	78237 MW;	104 (POTENTIAL).
FT	SEQUENCE	695 AA;	78237 MW;	105 (POTENTIAL).
FT	SEQUENCE	695 AA;	78237 MW;	106 (POTENTIAL).
FT	SEQUENCE	695 AA;	78237 MW;	107 (POTENTIAL).
FT	SEQUENCE	695 AA;	78237 MW;	108 (POTENTIAL).
FT	SEQUENCE	695 AA;	78237 MW;	109 (POTENTIAL).
FT	SEQUENCE	695 AA;	78237 MW;	110 (POTENTIAL).
FT	SEQUENCE	695 AA;	78237 MW;	111 (POTENTIAL).
FT	SEQUENCE	695 AA;	78237 MW;	112 (POTENTIAL).
FT	SEQUENCE	695 AA;	78237 MW;	113 (POTENTIAL).
FT	SEQUENCE	695 AA;	78237 MW;	114 (POTENTIAL).
FT	SEQUENCE	695 AA;	78237 MW;	115 (POTENTIAL).
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FT	SEQUENCE	695 AA;	78237 MW;	253 (POTENTIAL).
FT	SEQUENCE	695 AA;	78237 MW;	254 (POTENTIAL).
FT	SEQUENCE	695 AA;	78237 MW;	255 (POTENTIAL).
FT	SEQUENCE	6		

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RT LH/GC receptor family from mammals." ;
RL Biochem. Biophys. Res. Commun. 197;1062-1069(1993).
CC -1- FUNCTION: PROBABLE RECEPTOR FOR A GLYCOPROTEIN HORMONE.
CC -1- SUBCELLULAR LOCATION: Integral membrane protein.
CC -1- SIMILARITY: BELONGS TO FAMILY 1 OF G-PROTEIN COUPLED RECEPTORS.
CC FSH/LSH/TEH SUBFAMILY.
CC -----
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CC modified and this statement is not removed. Usage by and for commercial
CC entities requires a license agreement (See http://www.isb-sib.ch/announce/
CC or send an email to license@isb-sib.ch).
CC -----
CC EMBL: Z28332, CAA82186.1; -.
CC DR PIR: S41908, S41908.
CC DR PIR: JC2033, JC2033.
CC DR InterPro: IPR000276; GPCR_Rhodopsn.
CC DR InterPro: IPR000832; GPCR_secretin.
CC DR InterPro: IPR001611; LRR.
CC DR InterPro: IPR003592; LRR_out.
CC DR Pfam: PF00001, 7cm_1; 1.
CC DR Pfam: PF00560; LRR; 6.
CC DR SMART: SMO0370; LRR; 2.
CC DR PROSITE, PS00237; G-PROTEIN RECP_F1_1; 1.
CC DR PROSITE, PS00262; G-PROTEIN_RECP_F1_2; 1.
CC KW G-protein coupled receptor; Transmembrane; Glycoprotein; Signal;
KW Alternative splicing; Repeat.
FT SIGNAL 1 27
FT CHAIN 28 925
FT FT PROBABLY GLYCOPROTEIN HORMONE G-PROTEIN
FT FT COUPLED RECEPTOR.
FT FT EXTRACELLULAR (POTENTIAL).
FT FT CYTOPLASMIC (POTENTIAL).
FT FT 1 (POTENTIAL).
FT FT 2 (POTENTIAL).
FT FT EXTRACELLULAR (POTENTIAL).
FT FT 3 (POTENTIAL).
FT FT CYTOPLASMIC (POTENTIAL).
FT FT 4 (POTENTIAL).
FT FT EXTRACELLULAR (POTENTIAL).
FT FT 5 (POTENTIAL).
FT FT CYTOPLASMIC (POTENTIAL).
FT FT 6 (POTENTIAL).
FT FT EXTRACELLULAR (POTENTIAL).
FT FT CYTOPLASMIC (POTENTIAL).
FT FT 7 (POTENTIAL).
FT FT CYTOPLASMIC (POTENTIAL).
FT FT 5 X APPROXIMATE TANDEM REPEATS.
FT FT 1 (INCOMPLETE).
FT FT 2.
FT FT 3.
FT FT 4.
FT FT 5 (INCOMPLETE).
FT FT N-LINKED (GLCNAC. . .) (POTENTIAL).
FT FT N-LINKED (GLCNAC. . .) (POTENTIAL).
FT FT N-LINKED (GLCNAC. . .) (POTENTIAL).
FT FT N-LINKED (GLCNAC. . .) (POTENTIAL).
FT FT N-LINKED (GLCNAC. . .) (POTENTIAL).
FT FT N-LINKED (GLCNAC. . .) (POTENTIAL).
FT FT MISSING (IN SHORT ISOFORM).
SQ SEQUENCE 925 AA; 100059 MW; D03A256368452FED CRC64;
Query Match 17.3%; Score 143; DB 1; Length 925;
Best local Similarity 33.3%; Pred. No. 1.4e-05;
Matches 37; Conservative 21; Mismatches 47; Indels 6; Gaps 3;
QY 6 VAIFGIMIAFIIVFSGSMFYSHOSATATIRNQVK-EMILAKRFFFIYFDAL 64
DB 694 VAFLLVNGASPISMYLSMLYV---VSGGMEAPKRNDSKVAKRAALIVFTML 749
QY 65 CWIPI-FAKPLSLQVEIPGTTISWVIGSAINSALNPILYITTRPEK 114
DB 750 CWAPIAFGLLAFAQOTLLVTOSKILLVFFPPINSICNPFYIAFTAFK 800

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RESULT 7					
ID	FSHR_MACFA	STANDARD;	PRT;	695 AA.	
AC	P32212				
DT	01-OCT-1993	(Rel. 27, Created)			
DT	01-OCT-1993	(Rel. 27, Last sequence update)			
DT	16-OCT-2001	(Rel. 40, Last annotation update)			
DE	Follicle stimulating hormone receptor precursor (FSH-R) (Folittropin receptor).				
GN	FSHR.				
OS	Macaca fascicularis (Crab eating macaque) (Cynomolgus monkey).				
OC	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;				
OC	Mammalia; Eutheria; Primates; Catarrhini; Cercopithecoidea;				
OC	Cercopithecinae; Macaca.				
OX	NCBI_TaxID=9541;				
RN	[1]				
RP	SEQUENCE FROM N.A.				
RC	TISSUE=Testis;				
RE	MEDLINE=94071854; PubMed=7504463;				
RL	Gromoll J., Danbar B., Sharma R.S., Nieschlag E.;				
RT	"Molecular cloning of the testicular follicle stimulating hormone receptor of the non human primate Macaca fascicularis and identification of multiple transcripts in the testis."				
RL	Biochem. Biophys. Res. Commun. 196;1066-1072(1993).				
CC	-1- FUNCTION: RECEPTOR FOR FOLLICLE STIMULATING HORMONE. THE ACTIVITY OF THIS RECEPTOR IS MEDIATED BY G PROTEINS WHICH ACTIVATE ADENYLYLATE CYCLASE.				
CC	-1- SUBCELLULAR LOCATION: Integral membrane protein.				
CC	-1- SIMILARITY: BELONGS TO FAMILY 1 OF G-PROTEIN COUPLED RECEPTORS.				
CC	FSH/LSH/TSH SUBFAMILY.				
CC	-1- SIMILARITY: CONTAINS 6 LEUCINE-RICH REPEATS (LRR).				
CC	-----				
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CC	-----				
DR	EMBL; X74454; CAA52463.1; -.				
DR	PIR; S36452; S36452.				
DR	PIR; J08098; J08098.				
DR	HSSP; P23945; LXUN.				
DR	InterPro; IPR000276; GPCR_Rhodopsn.				
DR	InterPro; IPR001611; LRR.				
DR	InterPro; IPR003372; LRR_Nterm.				
KW	Pfam; PF000001; 7tm_1; 1.				
KW	Pfam; PF00560; LRR; 3.				
KW	Pfam; PF01462; LRRNT; 1.				
KW	SMART; SM00013; LRRNT; 1.				
DR	PROSITE; PS00237; G_PROTEIN_RECP_F1_1; 1.				
DR	PROSITE; PS00262; G_PROTEIN_RECP_F1_2; 1.				
KM	G-protein coupled receptor; Transmembrane; Glycoprotein; Signal;				
KM	Phosphorylation; Repeat; Leucine-rich repeat.				
FT	SIGNAL	1	17	POTENTIAL.	
FT	CHAIN	18	695	FOLICLE STIMULATING HORMONE RECEPTOR.	
FT	DOMAIN	18	366	EXTRACELLULAR (POTENTIAL).	
FT	TRANSMEM	367	387	1 (POTENTIAL).	
FT	DOMAIN	388	398	CYTOPASMIC (POTENTIAL).	
FT	TRANSMEM	399	421	2 (POTENTIAL).	
FT	DOMAIN	422	443	EXTRACELLULAR (POTENTIAL).	
FT	TRANSMEM	444	465	3 (POTENTIAL).	
FT	DOMAIN	466	485	CYTOPASMIC (POTENTIAL).	
FT	TRANSMEM	486	508	4 (POTENTIAL).	
FT	DOMAIN	509	528	EXTRACELLULAR (POTENTIAL).	
FT	TRANSMEM	529	550	5 (POTENTIAL).	
FT	DOMAIN	551	573	CYTOPASMIC (POTENTIAL).	
FT	TRANSMEM	574	597	6 (POTENTIAL).	
FT	DOMAIN	598	608	EXTRACELLULAR (POTENTIAL).	
FT	TRANSMEM	609	630	7 (POTENTIAL).	
FT	DOMAIN	631	695	CYTOPASMIC (POTENTIAL).	

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FT REPEAT 44 68 LRR 1.
FT REPEAT 69 93 LRR 2.
FT REPEAT 119 143 LRR 3.
FT REPEAT 170 192 LRR 4.
FT REPEAT 193 216 LRR 5.
FT REPEAT 218 240 LRR 6.
FT DISULFID 442 517 BY SIMILARITY.
FT CARBOHYD 191 191 N-LINKED (GLCNAC. .) (POTENTIAL).
FT CARBOHYD 199 199 N-LINKED (GLCNAC. .) (POTENTIAL).
FT CARBOHYD 293 293 N-LINKED (GLCNAC. .) (POTENTIAL).
FT CARBOHYD 318 318 N-LINKED (GLCNAC. .) (POTENTIAL).
SQ SEQUENCE 695 AA; 78343 MW; 0D60A233729B5250 CRC64;

Query Match 17.1%; Score 141.5; DB 1; Length 695;
Best Local Similarity 26.5%; Pred. No. 1.4e-05;
Matches 44; Conservative 32; Mismatches 63; Indels 27; Gaps 6;

OY 1 AQISVAIFGLINLAFLIIVFSYGSMFYSVHOSAIYATEIRNOVKKEMTLAKRFFIIV 60
Db 527 SOLYVMSL-LVLNVLAVVLCGCTHTHYLYVRNPNIVS-----SSDPTLAKSMAMLI 579
OY 61 TDALCWIPD-FVAKPISLLOVEIPGTTTSNVVIGYSAINSHANFLIYTLTPRKE--- 115
Db 580 TDFICMAPISEFFAISAKVPLITVSRAKILLIYFVYINSCANPFLYAIFTKRERDFEI 639
OY 116 MIHFV-----HHYRQKSDSKIRKMHHSGGKCGCHRRCH 155
Db 640 LLSKFGCYEMQAIYRTSTSTA-----HNSHPNGCHSAH 676

RESULT 8
LSHR_PIG STANDARD; PRT; 696 AA.
AC P16582;
DT 01-AUG-1990 (Rel. 15, Created)
DT 01-AUG-1990 (Rel. 15, Last sequence update)
DT 16-OCT-2001 (Rel. 40, Last annotation update)
DE LSHR-pig (lateinizing hormone receptor precursor (LH/CG-R)
DE (LSHR-R) (lateinizing hormone receptor).
GN LHCGR.
OS Sus ocofa (Pig).
OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Cetartiodactyla; Suina; Suidae; Sus.
OX NCBI_TaxID=9623;
[1]
RN RP SEQUENCE FROM N.A.
RX MEDLINE=89332517; PubMed=2502844;
RA Losofelt H., Mistrabi M., Atger M., Salese R., Thi M.T.V.H.-L.,
RA Tojive A., Guichon-Mantel A., Sar S., Jallat B., Garnier J.,
RA Milgrom E.;
RT "Cloning and sequencing of porcine LH-hCG receptor cDNA: variants
RT lacking transmembrane domain.";
RL Science 245:525-528(1999).
CC -!- FUNCTION: RECEPTOR FOR LUTROPIN-CHORIOGNADOTROPIC HORMONE.
CC THE ACTIVITY OF THIS RECEPTOR IS MEDIATED BY G PROTEINS WHICH
CC ACTIVATE ADENYLATE CYCLASE.
CC -!- SUBCELLULAR LOCATION: Integral membrane protein.
CC -!- ALTERNATIVE PRODUCTS: 4 ISOFORMS; A (SHOWN HERE), B, C AND D; ARE
CC PRODUCED BY ALTERNATIVE SPLICING.
CC -!- SIMILARITY: BELONGS TO FAMILY 1 OF G-PROTEIN COUPLED RECEPTORS.
CC FSH/LSH/FSH SUBFAMILY.
CC -!- SIMILARITY: CONTAINS 6 LEUCINE-RICH REPEATS (LRR).
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CC or send an email to license@ebi.ac.uk).
CC -----
DR EMBL, M29525; AAA31062.1; -.
DR EMBL, M29526; AAA31063.1; -.

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[illegible]

CC Callitrich.  
 OX NCBI\_Taxid=9483;  
 RN (1)  
 RP SEQUENCE FROM N.A.  
 RC TISSUE=Testis;  
 RX MEDLINE=97307697; PubMed=9165039;  
 RA Zhang F.-P., Rannikko A.S., Manna P.R., Fraser H.M., Huhtaniemi I.T.;  
 RT "Cloning and functional expression of the luteinizing hormone  
 receptor complementary deoxyribonucleic acid from the marmoset monkey  
 leucis: absence of sequences encoding exon 10 in other species.";  
 RL Endocrinology 138:2481-2490(1997).  
 CC -1- FUNCTION: RECEPTOR FOR LUTROPIN-CHORIOGNADOTROPIC HORMONE.  
 CC THE ACTIVITY OF THIS RECEPTOR IS MEDIATED BY G PROTEINS WHICH  
 CC ACTIVATE ADENYLATE CYCLASE.  
 CC -1- SUBCELLULAR LOCATION: Integral membrane protein.  
 CC -1- SIMILARITY: BELONGS TO FAMILY 1 OF G-PROTEIN COUPLED RECEPTORS.  
 CC FSH/LSH/TSH SUBFAMILY.  
 CC -1- SIMILARITY: CONTAINS 5 LEUCINE-RICH REPEATS (LRR).  
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 CC or send an email to [license@isb-sib.ch](mailto:license@isb-sib.ch)).  
 CC -----  
 CC EMBL; U80673; AAB53698.1; -.  
 CC DR HSSP; P22888; 1LUT.  
 CC DR InterPro; IPR000276; GPCR\_Rhodopsin.  
 CC DR InterPro; IPR001611; LRR\_Nterm.  
 CC DR InterPro; IPR000372; LRR\_Nterm.  
 CC DR Pfam; PF00001; 7tm\_1; 1.  
 CC DR Pfam; PF00560; LRR\_2.  
 CC DR SMART; SM00013; LRRNT; 1.  
 CC DR PROSITE; PS00237; G-PROTEIN RECEPT\_F1\_1; 1.  
 CC DR PROSITE; PS00262; G-PROTEIN RECEPT\_F1\_2; 1.  
 CC KW G-protein coupled receptor; Transmembrane; Glycoprotein; Signal;  
 CC Phosphorylation; Repeat; Leucine-rich repeat.  
 CC FT SIGNAL 1 29  
 CC FT CHAIN 30 676  
 CC FT  
 CC FT DOMAIN 30 340  
 CC FT TRANSMEM 341 362  
 CC FT TRANSMEM 363 372  
 CC FT TRANSMEM 373 393  
 CC FT TRANSMEM 394 416  
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 CC FT TRANSMEM 440 459  
 CC FT TRANSMEM 460 482  
 CC FT TRANSMEM 483 502  
 CC FT TRANSMEM 503 526  
 CC FT TRANSMEM 527 547  
 CC FT TRANSMEM 548 571  
 CC FT TRANSMEM 572 582  
 CC FT TRANSMEM 583 604  
 CC FT TRANSMEM 605 676  
 CC FT DOMAIN 605 676  
 CC FT REPEAT 126 151  
 CC FT REPEAT 153 175  
 CC FT REPEAT 176 200  
 CC FT REPEAT 225 248  
 CC FT DISULFID 416 491  
 CC FT CARBOHYD 103 103  
 CC FT CARBOHYD 178 178  
 CC FT CARBOHYD 199 199  
 CC SEQUENCE 676 AA; 75677 MW; FB018227415454E1 CRC64;  
 CC  
 CC Query Match 16.8%; Score 139; DB 1; Length 676;  
 CC Best Local Similarity 31.3%; Pred. No. 2.4e-05;  
 CC Matches 36; Conservative 24; Mismatches 47; Indels 8; Gaps 3;  
 CC  
 CC 1 AQIYVAIFGLINLAFLIIVFSGMFFYSVHQSALITAEIRNQVKEMILARFFPIYF 60

DB 501 SQTLYTLTLI-LANVAPLITACACTYIPAVNPENLAT-----NKDTAKKMAILIF 553  
 QY 61 TDALCWIPD-FVAKPSLLQVEIPGTTSMVVGYSAINSAINDILYLTTRPDK 114  
 DB 554 TDFCTMAPISFFAISAFAKMPILITVNSKVLVLVLFYPINSCANPFLYAIPTKTFR 608  
 RESULT 12  
 ID FSHR\_PIG STANDARD; PRT: 695 AA.  
 AC P49059; Q077514;  
 DT 01-FEB-1996 (Rel. 33, Created)  
 DT 15-DEC-1998 (Rel. 37, Last sequence update)  
 DT 16-OCT-2001 (Rel. 40, Last annotation update)  
 DE Folicle stimulating hormone receptor precursor (FSH-R) (Folliotropin  
 DE receptor).  
 GN FSHR.  
 OS Sus scrofa (Pig).  
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 OC Mammalia; Eutheria; Cetartiodactyla; Suina; Suidae; Sui.  
 OX NCBI\_Taxid=9623;  
 RN (1)  
 RP SEQUENCE FROM N.A.  
 RC TISSUE=Ovary;  
 RX MEDLINE=96011644; PubMed=7590277;  
 RA Remy J.J., Lahbib-Manesale Y., Yezle M., Bozon V., Couture L.,  
 RA Pajot E., Grebert D., Salesse R.,  
 RT "The porcine follicleotropin receptor: cDNA cloning, functional  
 RL expression and chromosomal localization of the gene.";  
 RL Gene 163:257-261(1995).  
 CC  
 CC RP SEQUENCE FROM N.A.  
 CC TISSUE=Ovary;  
 CC Wang Y.F., Meyer K.B., Schmidt K., Wan S.J., Degen S.J.F.,  
 CC la Barbera A.R.;  
 CC "Porcine follicle-stimulating hormone receptor.";  
 CC Submitted (SRR-1997) to the EMBL/GenBank/DBJ databases.  
 CC -1- FUNCTION: RECEPTOR FOR FOLLICLE STIMULATING HORMONE. THE ACTIVITY  
 CC OF THIS RECEPTOR IS MEDIATED BY G PROTEINS WHICH ACTIVATE  
 CC ADENYLATE CYCLASE.  
 CC -1- SUBCELLULAR LOCATION: Integral membrane protein.  
 CC -1- SIMILARITY: BELONGS TO FAMILY 1 OF G-PROTEIN COUPLED RECEPTORS.  
 CC FSH/LSH/TSH SUBFAMILY.  
 CC -1- SIMILARITY: CONTAINS 6 LEUCINE-RICH REPEATS (LRR).  
 CC -----  
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 CC -----  
 CC EMBL; U31966; AAB86933.1; -.  
 CC DR EMBL; AF025377; AAC24981.1; -.  
 CC DR HSSP; P23945; 1XUN.  
 CC DR InterPro; IPR000276; GPCR\_Rhodopsin.  
 CC DR InterPro; IPR001611; LRR\_Nterm.  
 CC DR InterPro; IPR000372; LRR\_Nterm.  
 CC DR Pfam; PF00001; 7tm\_1; 1.  
 CC DR Pfam; PF00560; LRR\_2.  
 CC DR Pfam; PF01463; LRRNT; 1.  
 CC DR SMART; SM00013; LRRNT; 1.  
 CC DR PROSITE; PS00237; G-PROTEIN RECEPT\_F1\_1; 1.  
 CC DR PROSITE; PS00262; G-PROTEIN RECEPT\_F1\_2; 1.  
 CC KW G-protein coupled receptor; Transmembrane; Glycoprotein; Signal;  
 CC Phosphorylation; Repeat; Leucine-rich repeat.  
 CC FT SIGNAL 1 17  
 CC FT CHAIN 18 695  
 CC FT DOMAIN 18 366  
 CC FT TRANSMEM 367 387  
 CC FT DOMAIN 388 398  
 CC  
 CC POTENTIAL.  
 CC FOLLICLE STIMULATING HORMONE RECEPTOR.  
 CC EXTRACELLULAR (POTENTIAL).  
 CC CYTOPLASMIC (POTENTIAL).



Query Match	Best Local Similarity	Score	DB 1; Length	695;
Matches	42; Conservative	36; Mismatches	62; Indels	17; Gaps
1 AQTYSVAITPLGINTAAFIITVTSYSGMFPVSQHSOATATATEIRINQVKEMITAKRFFIYF 60	527	527	527	527
527	527	527	527	527
61 TATLCAWIPF-PVAKKPSILQVEIRPGITTSWNVVIGYASINSAINLPILYTLTTPRPEK----- 115	580	580	580	580
580	580	580	580	580
116 MIHRFMHNRYORKSKMDSCGI-RKHMILHSSGGKCGHC 151	640	640	640	640
640	640	640	640	640
RESULT 13				
LSHR_MOUSE				
ID	LSHR_MOUSE	STANDARD;	PRT;	700 AA.
AC	P30730;			
DT	01-APR-1993 (Rel. 25, Created)			
DT	01-APR-1993 (Rel. 25, Last sequence update)			
DT	16-OCT-2001 (Rel. 40, Last annotation update)			
DE	luteal-in-choriogonadotropic hormone receptor precursor (LH/CG-R)			
DE	(LSHR-R) (luteinizing hormone receptor).			
GN	LHGR OR LHR. (mouse).			
OC	Mus musculus; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;			

CC	Mammalia; Eutheria; Rodentia; Sciurognathii; Muridae; Murinae; Mus.
OX	NCBI_TaxId=10090;
RN	[1]
RP	SEQUENCE FROM N.A.
RX	MEDLINE=92165799; PubMed=1311310;
RA	Gudemann T., Birnbaumer M., Birnbaumer L.;
RT	"Evidence for dual coupling of the murine luteinizing hormone receptor to adenylyl cyclase and phosphoinositide breakdown and Ca <sup>2+</sup> mobilization. Studies in L cells."
RL	J. Biol. Chem. 267:4479-4488(1992).
RN	[2]
RP	SEQUENCE OF 1-58 FROM N.A.
RX	MEDLINE=93093308; PubMed=1459341;
RA	Hahnenfeld I.T., Eskola V., Pakarinen P., Matikainen T., Sprengel R.;
RT	"The murine luteinizing hormone and follicle-stimulating hormone receptor genes: transcription initiation sites, putative promoter sequences and promoter activity";
RL	Mol. Cell. Endocrinol. 88:55-66(1992).
CC	-1- FUNCTION: RECEPTOR FOR LUTROPIN-CHORIOGNADOTROPIC HORMONE.
CC	THE ACTIVITY OF THIS RECEPTOR IS MEDIATED BY G PROTEINS WHICH
CC	ACTIVATE ADENYLATE CYCLASE.
CC	-1- SUBCELLULAR LOCATION: Integral membrane protein.
CC	-1- SIMILARITY: BELONGS TO FAMILY 1 OF G-PROTEIN COUPLED RECEPTORS.
CC	FSH/LSH/TSH SUBFAMILY.
CC	-1- SIMILARITY: CONTAINS 4 LEUCINE-RICH REPEATS (LRR).
CC	-----
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CC	-----
DR	EMBL; S49753; AAB24402.1; -;
DR	EMBL; M81310; AAA39432.1; -;
DR	EMBL; M87571; AAA39433.1; -;
DR	PIR; A42395; A42395.
DR	HSSP; P22888; ILDT.
DR	MGP; MG1:96783; LncGr.
DR	InterPro; IPRO00276; GPCR_Rhodpsn.
DR	InterPro; IPRO01611; LRR.
DR	InterPro; IPR000372; LRR_Nterm.
DR	Pfam; PF00001; 7tm_1; 1.
DR	Pfam; PF00560; LRR; 1.
DR	SMART; SM00013; LRRNT; 1.
DR	PROSITE; PS00237; G_PROTEIN_RECPT_FL_1; 1.
DR	PROSITE; PS02652; G_PROTEIN_RECPT_FL_2; 1.
KW	G-protein coupled receptor; Transmembrane; Glycoprotein; Signal;
KW	Phosphorylation; Repeat; Leucine-rich repeat.
FT	SIGNAL
FT	1 26
FT	CHAIN
FT	27 700
FT	PT
FT	DOMAIN
FT	27 362
FT	TRANSSEM
FT	363 390
FT	DOMAIN
FT	391 399
FT	TRANSSEM
FT	400 422
FT	DOMAIN
FT	423 443
FT	TRANSSEM
FT	444 466
FT	DOMAIN
FT	467 486
FT	TRANSSEM
FT	487 509
FT	DOMAIN
FT	510 529
FT	TRANSSEM
FT	530 551
FT	DOMAIN
FT	552 574
FT	TRANSSEM
FT	575 598
FT	DOMAIN
FT	599 609
FT	TRANSSEM
FT	610 631
FT	DOMAIN
FT	632 700
FT	REPEAT
FT	52 75
FT	REPEAT
FT	126 150
FT	REPEAT
FT	176 200
FT	REPEAT
FT	225 248
FT	LRR 4



FT DISURFD 443 518 BY SIMILARITY.  
 FT CARBOHYD 103 N-LINKED (GLCNAC. . .) (POTENTIAL).  
 FT CARBOHYD 178 N-LINKED (GLCNAC. . .) (POTENTIAL).  
 FT CARBOHYD 199 N-LINKED (GLCNAC. . .) (POTENTIAL).  
 FT CARBOHYD 295 N-LINKED (GLCNAC. . .) (POTENTIAL).  
 FT CARBOHYD 303 N-LINKED (GLCNAC. . .) (POTENTIAL).  
 FT CARBOHYD 317 N-LINKED (GLCNAC. . .) (POTENTIAL).  
 SQ SEQUENCE 700 AA; 78214 MW; 8A6840A011E1E014 CRC64;  
 Query Match 16.2%; Score 134; DB 1; Length 700;  
 Best Local Similarity 28.0%; Pred. No. 7e-05;  
 Matches 35; Conservative 29; Mismatches 49; Indels 12; Gaps 4;  
 QY 1 AQSVAFLGINTAFLIIVSGSMFYSHQSAITATEIRNOVKEMIAKFFPIVF 60  
 Db 528 SQVYLSTLIL-LNVAFLVACVRYFAVONPELTAP-----NKDTKIAKKAIIIF 580  
 QY 61 TDALCWIPF-FVAKPLSLQVEIPGTISWVIGSAINSLNPLVLTLPKPEK----- 115  
 581 TDFTCMBPISFFAISAARKVPLVITVNSKVLVLPYVNSCANPFLYAVFTKAFORDFFL 640  
 116 MHRF 120  
 Db 641 LLSRF 645  
 RESULT 14  
 LSHR RAT STANDARD; PRT: 700 AA.  
 ID LSHR RAT STANDARD; PRT: 700 AA.  
 AC P16235; P70646; Q63807; Q63808; Q63809;  
 DT 01-APR-1990 (Rel. 14, Created)  
 DT 01-APR-1990 (Rel. 14, Last sequence update)  
 DE 16-OCT-2001 (Rel. 40, Last annotation update)  
 DE Lutropin-choriogonadotropic hormone receptor precursor (LH/CG-R)  
 GN LSHR-8 (luteinizing hormone receptor).  
 OS Rattus norvegicus (Rat).  
 OC Eukaryote; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 OC Mammalia; Eutheria; Rodentia; Sciurognathi; Murinae; Rattus.  
 OX NCBI\_TaxID=10116;  
 RN [1]  
 RP SEQUENCE FROM N.A.  
 RA MEDLINE=89332512; PubMed=2502842;  
 RA McFarland K.C., Sprengel R., Phillips H.S., Koehler M.,  
 RA Roeschblit N., Nikolic K., Segaloff D.L., Seeburg P.H.;  
 RT "Lutropin-choriogonadotropin receptor: an unusual member of the G  
 RT protein-coupled receptor family."; Science 245:494-499(1989).  
 RN [2]  
 RP SEQUENCE FROM N.A., AND ALTERNATIVE SPLICING.  
 RC STRAIN=Sprague-Dawley; TISSUE=Ovary;  
 RX MEDLINE=92347604; PubMed=1353463;  
 RA Aatsinki J.T., Pietila E.M., Lakkakorpi J.T., Rajaniemi H.J.;  
 RT "Expression of the LH/CG receptor gene in rat ovarian tissue is  
 RT regulated by an extensive alternative splicing of the primary  
 RT transcript."; Mol. Cell. Endocrinol. 84:127-135(1992).  
 RN [3]  
 RP SEQUENCE FROM N.A.  
 RX MEDLINE=91209270; PubMed=2019252;  
 RA Koo Y.B., Staughter R.G., Ji T.H.;  
 RT "Structure of the luteinizing hormone receptor gene and multiple  
 RT exons of the coding sequence."; Endocrinology 128:2297-2308(1991).  
 RN [4]  
 RP SEQUENCE FROM N.A., AND ALTERNATIVE SPLICING.  
 RX MEDLINE=91006819; PubMed=1976554;  
 RA Bernard M.P., Myers R.V., Moyle W.R.;  
 RT "Cloning of rat lutropin (LH) receptor analogs lacking the soybean  
 RT lectin domain."; Mol. Cell. Endocrinol. 71:R19-R23(1990).  
 RN [5]  
 RP SEQUENCE FROM N.A., AND ALTERNATIVE SPLICING.

RX MEDLINE=91126285; PubMed=2281186;  
 RA Segaloff D.L., Sprengel R., Nikolic K., Ascoli M.;  
 RT "Structure of the lutropin/choriogonadotropin receptor."; Recent Prog. Horm. Res. 46:261-303(1990).  
 RN [6]  
 RP SEQUENCE OF 295-700 FROM N.A.  
 RA MEDLINE=91060531; PubMed=2174034;  
 RX Tsai-Morris C.H., Buczek E., Wang W., Dufau M.L.;  
 RT "Intronic nature of the rat luteinizing hormone receptor gene defines  
 RT a soluble receptor subsplicing with hormone binding activity."; J. Biol. Chem. 265:19385-19388(1990).  
 RN [7]  
 RP SEQUENCE OF 27-37.  
 RX MEDLINE=89174723; PubMed=2925659;  
 RA Roche P.C., Ryan R.J.;  
 RT "Purification, characterization, and amino-terminal sequence of rat  
 RT ovarian receptor for luteinizing hormone/human chorionadotropin."; J. Biol. Chem. 264:4636-4641(1989).  
 RN [8]  
 RP MUTAGENESIS.  
 RX MEDLINE=91332007; PubMed=1714448;  
 RA Ji T., Ji T.H.;  
 RT "Asp383 in the second transmembrane domain of the lutropin receptor  
 RT is important for high affinity hormone binding and cAMP production."; J. Biol. Chem. 266:14953-14957(1991).  
 CC -1- FUNCTION: RECEPTOR FOR LUTROPIN-CHORIOGONADOTROPIC HORMONE.  
 CC THE ACTIVITY OF THIS RECEPTOR IS MEDIATED BY G PROTEINS WHICH  
 CC ACTIVATE ADENYLATE CYCLASE.  
 CC -1- SUBCELLULAR LOCATION: Integral membrane protein.  
 CC -1- ALTERNATIVE PRODUCTS: AT LEAST 11 ISOFORMS WHICH DIFFER IN  
 CC SUBCELLULAR LOCATION ARE PRODUCED BY ALTERNATIVE SPLICING  
 CC OF THE SAME GENE.  
 CC -1- SIMILARITY: BELONGS TO FAMILY 1 OF G-PROTEIN COUPLED RECEPTORS.  
 CC FSH/LSH/TSH SUBFAMILY  
 CC -1- SIMILARITY: CONTAINS 7 LEUCINE-RICH REPEATS (LRR).  
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 CC  
 DR EMBL; M26199; AAA41528.1; -;  
 DR EMBL; M61212; AAA41527.1; JOINED.  
 DR EMBL; M61211; AAA41527.1; JOINED.  
 DR EMBL; S40803; AAB22680.1; -;  
 DR EMBL; S40787; AAB22680.1; JOINED.  
 DR EMBL; S40903; AAB22680.1; JOINED.  
 DR EMBL; S40904; AAB22680.1; JOINED.  
 DR EMBL; S40905; AAB22680.1; JOINED.  
 DR EMBL; S40907; AAB22680.1; JOINED.  
 DR EMBL; S40909; AAB22680.1; JOINED.  
 DR EMBL; S40918; AAB22680.1; JOINED.  
 DR EMBL; S40920; AAB22680.1; JOINED.  
 DR EMBL; S40795; AAB22680.1; JOINED.  
 DR EMBL; S40798; AAB22680.1; JOINED.  
 DR EMBL; S40795; AAB22681.1; -;  
 DR EMBL; S40787; AAB22681.1; JOINED.  
 DR EMBL; S40903; AAB22681.1; JOINED.  
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 DR EMBL; S40909; AAB22681.1; JOINED.  
 DR EMBL; S40918; AAB22681.1; JOINED.  
 DR EMBL; S40920; AAB22681.1; JOINED.  
 DR EMBL; S40787; AAB22682.2; -;  
 DR EMBL; S40787; AAB22682.2; JOINED.  
 DR EMBL; S40903; AAB22682.2; JOINED.  
 DR EMBL; S40907; AAB22682.2; JOINED.  
 DR EMBL; S40909; AAB22682.2; JOINED.  
 DR EMBL; S40918; AAB22682.2; JOINED.



RL Nature 409:685-690(2001).  
 RN [3]  
 RP SEQUENCE OF 1-51 FROM N.A.  
 RX MEDLINE=93093308; PubMed=1459341;  
 RA Huhaniemi I.T., Eskola V., Pakarinen P., Matikainen T.,  
 RA Sprengel R.;  
 RT "The murine luteinizing hormone and follicle-stimulating hormone  
 RT receptor genes: transcription initiation sites, putative promoter  
 RT sequences and promoter activity.";  
 RL Mol. Cell. Endocrinol. 88:55-66(1992).  
 CC -1- FUNCTION: RECEPTOR FOR FOLLICLE STIMULATING HORMONE. THE ACTIVITY  
 CC OF THIS RECEPTOR IS MEDIATED BY G PROTEINS WHICH ACTIVATE  
 CC ADENYLATE CYCLASE.  
 CC -1- SUBCELLULAR LOCATION: Integral membrane protein.  
 CC -1- SIMILARITY: BELONGS TO FAMILY 1 OF G-PROTEIN COUPLED RECEPTORS.  
 CC FSH/LSH/TSH SUBFAMILY.  
 CC -1- SIMILARITY: CONTAINS 6 LEUCINE-RICH REPEATS (LRR).  
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 CC -----  
 CC EMBL; AF095642; AAC67559.1; -;  
 CC EMBL; AK016635; BAB30351.1; -;  
 CC EMBL; SA9632; AAB24401.1; -;  
 CC EMBL; M87570; AAA37641.1; -;  
 CC MGI; 95583; Behr.  
 CC InterPro; IPR00276; GPCR Rhodopsin.  
 CC InterPro; IPR001611; LRR.  
 CC InterPro; IPR000372; LRR\_Nterm.  
 CC Pfam; PF00001; 7tm.1; 1.  
 CC Pfam; PF00560; LRR.3.  
 CC Pfam; PF01462; LRRNT.1.  
 CC PRINTS; PR00237; GPCR RHODOPSIN.  
 CC SMART; SM00013; LRRNT.1.  
 CC PROSITE; PS00237; G\_PROTEIN\_RECEP\_F1\_1; 1.  
 CC PROSITE; PS00262; G\_PROTEIN\_RECEP\_F1\_2; 1.  
 CC G-protein coupled receptor; Transmembrane; Glycoprotein; Signal;  
 CC Phosphorylation; Repeat; Leucine-rich repeat.  
 CC SIGNAL 1 17 POTENTIAL.  
 CC CHAIN 18 692 FOLLICLE STIMULATING HORMONE RECEPTOR.  
 CC DOMAIN 18 365 EXTRACELLULAR (POTENTIAL).  
 CC TRANSMEM 366 386 1 (POTENTIAL).  
 CC DOMAIN 387 397 CYTOPLASMIC (POTENTIAL).  
 CC TRANSMEM 398 420 2 (POTENTIAL).  
 CC DOMAIN 421 442 EXTRACELLULAR (POTENTIAL).  
 CC TRANSMEM 443 464 3 (POTENTIAL).  
 CC TRANSMEM 465 507 CYTOPLASMIC (POTENTIAL).  
 CC TRANSMEM 485 527 4 (POTENTIAL).  
 CC DOMAIN 508 527 EXTRACELLULAR (POTENTIAL).  
 CC TRANSMEM 528 549 5 (POTENTIAL).  
 CC DOMAIN 550 572 CYTOPLASMIC (POTENTIAL).  
 CC TRANSMEM 573 596 6 (POTENTIAL).  
 CC DOMAIN 597 607 EXTRACELLULAR (POTENTIAL).  
 CC TRANSMEM 608 629 7 (POTENTIAL).  
 CC DOMAIN 630 692 CYTOPLASMIC (POTENTIAL).  
 CC REPEAT 44 68 LRR 1.  
 CC REPEAT 69 93 LRR 2.  
 CC REPEAT 119 143 LRR 3.  
 CC REPEAT 170 192 LRR 4.  
 CC REPEAT 193 216 LRR 5.  
 CC REPEAT 218 240 LRR 6.  
 CC DISULFID 441 516 BY SIMILARITY.  
 CC CARBOHYD 191 191 N-LINKED (GLCNAC. . .) (POTENTIAL).  
 CC CARBOHYD 199 199 N-LINKED (GLCNAC. . .) (POTENTIAL).  
 CC CARBOHYD 293 293 N-LINKED (GLCNAC. . .) (POTENTIAL).  
 CC CONFLICT 436 436 Q -> K (IN REF. 2).  
 CC SEQUENCE 692 AA; 77769 MW; 4B57229180563A44 CRC64;

Query Match 16.0%; Score 132.5; DB 1; Length 692;  
 Best Local Similarity 26.6%; Pred. No. 9.5e-05;  
 Matches 42; Conservative 30; Mismatches 57; Indels 29; Gaps 5;  
 QY 1 AQIYVAIFGIMLAFFIIIVFSYSGMEFYSVHOSAITAEIRNOVKEMILAKRFFFIYF 60  
 DB 526 SQLYVVAL-LVNLNALFFVVICGCTHTIYLVRNPNTVSS-----SRDRIAKRMATLIF 578  
 QY 61 TDAICWIFI-FVAKPUSILQVEIRGITTSWVVIQYSAINSALNPILYTLTPRPFKE---- 115  
 DB 579 TDFLCWAPILFFAISLKVPLITVSRAKILLVLFYPINSCANPFIYALFTKNFRDFEV 638  
 QY 116 MIHRF-----WHNYRKRKSDSKIR 136  
 DB 639 LMSKFGCYEQAOIKYKETSITHNFRSRKNPCSSAPR 676

Search completed: February 3, 2003, 14:21:48  
 Job time : 22 secs

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OM protein - protein search, using sw model

Run on: February 3, 2003, 14:20:08 / Search time 73 Seconds  
(without alignments)  
443.142 Million cell updates/sec

Title: US-10-049-568-2

Perfect score: 826  
Sequence: 1 AQLSYVAIFLGINLAFIIL.....HMLHSSGGKCHCRCHLS 157

Scoring table: BLOSUM62  
Gapop 10.0, Gapext 0.5

Searched: 671580 seqs, 206047115 residues  
1 number of hits satisfying chosen parameters: 671580

Minimum DB seq length: 0  
Maximum DB seq length: 200000000  
Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database:

SPTREMBL\_21.\*  
1: sp\_\_archaea.\*  
2: sp\_\_bacteria.\*  
3: sp\_\_fungi.\*  
4: sp\_\_human.\*  
5: sp\_\_invertebrate.\*  
6: sp\_\_mammal.\*  
7: sp\_\_mhc.\*  
8: sp\_\_organelle.\*  
9: sp\_\_phage.\*  
10: sp\_\_plant.\*  
11: sp\_\_rodent.\*  
12: sp\_\_virus.\*  
13: sp\_\_vertebrate.\*  
14: sp\_\_unclassified.\*  
15: sp\_\_viral.\*  
16: sp\_\_bacteriap.\*  
17: sp\_\_archeap.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	224.5	27.2	334	5	Q9VYG0
2	212.5	25.7	359	5	Q9VBP0
3	154	18.6	693	13	Q9DGC5
4	148	17.9	1012	5	Q9SY66
5	148	17.9	1280	5	Q9SY17
6	143.5	17.4	666	13	Q98T85
7	139.5	16.9	688	11	Q64183
8	138	16.7	307	13	Q90XC7
9	134	16.2	814	13	Q91949
10	133.5	16.0	424	6	Q9D663
11	132	16.0	701	6	Q8SP88
12	132	16.0	793	13	Q91948
13	131	15.9	699	4	Q15996
14	131	15.9	701	4	Q14751
15	131	15.9	779	13	Q918N7
16	130.5	15.8	778	13	Q98TF4

17	130	15.7	1050	5	Q9BN18	Q9bn18 drosophila
18	130	15.7	1300	5	Q9NKD6	Q9nk6 drosophila
19	130	15.7	1360	5	Q9ND11	Q9nd11 drosophila
20	128	15.5	658	13	Q9PVN9	Q9pvn9 oncorhynch
21	127	15.4	662	13	Q98T84	Q98t84 ictalurus p
22	125.5	15.2	410	4	Q16225	Q16225 homo sapien
23	125	15.1	662	13	Q9FW16	Q9fw16 claris gar
24	124	15.0	696	13	Q9DGF5	Q9d67 cynops pyr
25	123.5	15.0	695	11	Q8R428	Q8r428 cavia porce
26	123	14.9	335	6	Q4387	Q4387 muscicola vis
27	122	14.8	293	6	Q9SMF7	Q9smf7 canis famli
28	122	14.8	763	6	Q9BGN4	Q9bgn4 felis silve
29	121	14.6	601	13	Q42500	Q42500 meleagris g
30	121	14.6	764	13	Q9D697	Q9d697 mus musculu
31	119.5	14.5	384	13	Q9PU08	Q9pu8 fugu rubrip
32	119.5	14.5	398	4	Q9H228	Q9h228 homo sapien
33	119.5	14.5	515	11	Q9DBL0	Q9db10 mus musculu
34	119.5	14.5	724	13	Q9FVP0	Q9fvp0 oncorhynch
35	119	14.4	739	6	Q9BG55	Q9bg55 sus scrofa
36	119	14.4	764	6	Q9BGS6	Q9bgs6 sus scrofa
37	119	14.4	764	6	Q8SP29	Q8sp29 sus scrofa
38	117.5	14.2	418	13	Q90W12	Q90w12 xenopus lae
39	117.5	14.2	470	4	Q43200	Q43200 homo sapien
40	117.5	14.2	533	4	Q9P1V4	Q9p1v4 homo sapien
41	116	14.0	885	5	Q61232	Q61232 lymanaea sta
42	115.5	14.0	408	4	Q96RV1	Q96rv1 homo sapien
43	115	13.9	326	4	Q8TAM8	Q8tam8 homo sapien
44	114.5	13.9	829	5	Q9VEG4	Q9veg4 drosophila
45	114.5	13.9	831	5	Q94979	Q94979 drosophila

## ALIGNMENTS

RESULT 1  
Q9VYG0 PRELIMINARY; PRT; 334 AA.  
AC Q9VYG0;  
DT 01-MAY-2000 (TREMREL. 13, Created)  
DT 01-MAY-2000 (TREMREL. 13, Last sequence update)  
DT 01-JUN-2001 (TREMREL. 17, Last annotation update)  
DE CG4187 protein.  
GN CG4187.  
OS Drosophila melanogaster (Fruit fly).  
OC Eukaryota; Metazoa; Arthropoda; Tracheata; Hexapoda; Insecta;  
OC Pterygota; Neoptera; Endopterygota; Diptera; Brachycera; Muscomorpha;  
OC Ephydroidea; Drosophilidae; Drosophila.  
OX NCBI\_TaxID=7227;  
RN [1]  
RP SEQUENCE FROM N.A.  
RC STRAIN=BERKELEY;  
RX MEDLINE=20196006; PubMed=10731132;  
RA Adams M.D., Celinker S.E., Holt R.A., Evans C.A., Gocayne J.D.,  
RA Amanatides P.G., Scherer S.E., Li P.W., Hoskins R.A., Galle R.F.,  
RA George R.A., Lewis S.E., Richards S., Ashburner M., Henderson S.N.,  
RA Sutton G.G., Wortman J.R., Yandell M.D., Zhang O., Chen L.X.,  
RA Brandon R.C., Rogers Y.-H.C., Blazek R.G., Champe M., Pfeiffer B.D.,  
RA Wan K.H., Doyle C., Baxter E.G., Heit G., Nelson C.R., Miklos G.L.G.,  
RA Abiril J.F., Agbayani A., An H.-J., Andrews-Fiankoch C., Baldwin D.,  
RA Bailew R.M., Basu A., Baxendale J., Bayraktaroglu L., Beasley E.M.,  
RA Beeson K.Y., Benos P.V., Berman B.P., Bhandari D., Bolshakov S.,  
RA Borikova D., Botchan M.R., Bouck J., Brokstein P., Brothier P.,  
RA Burris K.C., Busam D.A., Butler H., Cadieu E., Center A., Chandra I.,  
RA Cherry J.M., Cawley S., Dahlke C., Davenport L.B., Davies P.,  
RA de Pablos B., Delcher A., Deng Z., Mays A.D., Dew I., Dietz S.M.,  
RA Dodson K., Doup L.E., Downes M., Dugan-Rocha S., Dunkov B.C., Dunn P.,  
RA Foutsin K.J., Evangelista C.C., Ferraz C., Ferreira S., Fleischmann W.,  
RA Gabrielian A.E., Gary N.S., Gelbart W.M., Glasser K.,  
RA Glodex A., Gong F., Gorrell J.H., Gu Z., Guan P., Harris M.,  
RA Harris N.L., Harvey D., Heiman T.J., Hernandez J.R., Houck C.,  
RA Hostin D., Houston K.A., Howland T.J., Wei M.-H., Ibegwu C.,  
RA Jalali M., Kalush F., Karpen G.H., Ke Z., Kennison J.A., Ketchum K.A.,  
RA Kimmel B.E., Kodira C.D., Kraft C., Kravitz S., Kulp D., Lai Z.,

RA Laeko P., Lei Y., Levitsky A.A., Li J., Li Z., Liang Y., Lin X.,  
 RA Liu X., Mattei B., McIntosh T.C., McLeod M.P., McPherson D.,  
 RA Merkulov G., Milshina N.V., Nobarty C., Morris J., Moshel A.,  
 RA Mount S.M., Moy M., Murphy B., Murphy L., Muzny D.M., Nelson D.L.,  
 RA Nelson D.R., Nelson K.A., Nixon K., Nusken D.R., Pacleb J.M.,  
 RA Palazzolo M., Peltman G.S., Pan S., Pollard J., Puri V., Reese M.G.,  
 RA Reinert K., Remington K., Saunders R.D.C., Scheeler F., Shen H.,  
 RA Shue B.C., Siden-Kiamos I., Simpson M., Skipski M.P., Smith T.,  
 RA Spier E., Spradling A.C., Stapleton M., Strong R., Sun E.,  
 RA Svirkas R., Tector C., Turner R., Venter E., Wang A.H., Wang X.,  
 RA Wang Z.-Y., Wassarman D.A., Weinstein G.M., Weissbach J.,  
 RA Williams S.M., Woodage T., Worley K.C., Wu D., Yang S., Yao Q.A.,  
 RA Ye J., Yeh R.-F., Zaveri J.S., Zhan M., Zhang G., Zhao Q., Zheng L.,  
 RA Zhang X.H., Zhong F.N., Zhong W., Zhou X., Zhu S., Zhu X., Smith H.O.,  
 RA Gibbs R.A., Myers E.W., Rubin G.M., Venter J.C.,  
 RT "The genome sequence of Drosophila melanogaster.",  
 RL Science 287:2185-2195(2000).  
 DR EMBL/AF003491/AA48237.1; -.  
 DR FlyBase/FG0030458/CG4187.  
 DR InterPro/ IPR000276/ GPCR\_Rhodpsn.  
 DR InterPro/ IPR001901/ SecE.  
 DR Pfam/ PF00001/ 7tm\_1; 1.  
 DR PRINTS/ PR00237/ GPCRHOOPS.  
 DR PROSITE/ PS00262/ G\_PROTEIN\_RECEP\_F1\_2; 1.  
 DR PROSITE/ PS01067/ SEC6 SEC6LG, UNKNOWN\_1.  
 SQ SEQUENCE 334 AA; 37020 MW; 16622FD67534061 CRC64;  
  
 Query Match 27.2%; Score 224.5; DB 5; Length 334;  
 Best Local Similarity 32.3%; Pred. No. 8.8e-15;  
 Matches 54; Conservative 27; Mismatches 67; Indels 19; Gaps 4;  
  
 QY 4 YSAVAFGLINLAFLIIVFSGSMFYVHQS-AITAEINQVKEMILAKREFPIVFT 61  
 Db 166 YSAFLFVNLVNLISLFLFSTYIRMLQALRDSGGKRRST---HSGRENVAVTRAIIVTT 221  
  
 QY 62 DALCWIPIFAKPLSLQVEIPGTTISWVIGSAINSLNPILYTLTRPFKEIMHFW 121  
 Db 222 DCACMLPIIVKIALASCEISPDYAMLVLPVNSALNPVLYTLTAAFKQGLRYC 281  
  
 QY 122 HNY-----RQRKMSDKIRKIMLHSS--GKGCRCRCH 155  
 Db 282 HTLPSCLVNNETRSQTQTAYESGLSVLAHLGGVGGSGRKMSH 328  
  
 RESULT 2  
 Q9VBP0 PRELIMINARY; PRT; 359 AA.  
 Q9VBP0;  
 01-MAY-2000 (TREMBlrel. 13, Created)  
 01-MAY-2000 (TREMBlrel. 13, Last sequence update)  
 01-MAR-2002 (TREMBlrel. 20, Last annotation update)  
 DE CG5042 protein.  
 GN CG5042 OR CG5046.  
 OS Drosophila melanogaster (Fruit fly).  
 OC Eukaryota; Metazoa; Arthropoda; Tracheata; Hexapoda; Insecta;  
 OC Pterygota; Neoptera; Endopterygota; Diptera; Brachycera; Muscomorpha;  
 OC Ephydroidea; Drosophilidae; Drosophila.  
 NCBI\_TaxID=7227;  
 RN 11  
 RP SEQUENCE FROM N.A.  
 RC STRAIN=BERKELEY;  
 RX MEDLINE=20196006; PubMed=10731132;  
 RA Adams M.D., Celniker S.E., Holt R.A., Evans C.A., Gocayne J.D.,  
 RA Amanatides P.G., Scherer S.E., Li P.W., Hoskins R.A., Galle R.F.,  
 RA George R.A., Lewis S.E., Richards S., Ashburner M., Henderson S.N.,  
 RA Sutton G.G., Mortman J.R., Yandell M.D., Zhang O., Chen L.X.,  
 RA Brandon R.C., Rogers Y.-H.C., Blazer R.G., Champe M., Pfeiffer B.D.,  
 RA Man K.H., Doyle C., Baxter E.G., Helt G., Nelson C.R., Miklos G.L.G.,  
 RA Abil U.F., Agbayani A., An H.-J., Andrews-Pfannkoch C., Baldwin D.,  
 RA Ballew K.Y., Baou P.V., Berman B.P., Bhandari D., Bolshakov S.,  
 RA Borkova D., Botchan M.R., Bouck J., Brodtstein P., Brodtier P.,  
 RA Burlis K.C., Busam D.A., Butler H., Cadieu E., Center A., Chandra I.,

RA Cherry J.M., Cawley S., Dahlke C., Davenport L.B., Davies P.,  
 RA de Pablos B., Delcher A., Deng Z., Mays A.D., Dew I., Dietz S.M.,  
 RA Dodson K., Dong L.E., Downes M., Dugan-Kocha S., Dunkov B.C., Dunn P.,  
 RA Durbin K.J., Evangelista C.C., Ferraz C., Fertiera S., Fleischmann W.,  
 RA Foster C., Gabrielian A.E., Gary N.S., Gelbart W.M., Glasser K.,  
 RA Glodok A., Gong F., Gorrell J.H., Gu Z., Guan P., Harris M.,  
 RA Harris N.L., Harvey D., Heiman T.J., Hernandez J.R., Honick J.,  
 RA Hostin D., Houston K.A., Howland T.U., Wei M.-H., Ibbagan C.,  
 RA Jalali M., Kalush F., Karpn G.H., Ke Z., Kennison J.A., Kechum K.A.,  
 RA Kimmel B.E., Kodira C.D., Kraft C., Kravitz S., Kulp D., Lai Z.,  
 RA Laeko P., Lei Y., Levitsky A.A., Li J., Li Z., Liang Y., Lin X.,  
 RA Liu X., Mattei B., McIntosh T.C., McLeod M.P., McPherson D.,  
 RA Merkulov G., Milshina N.V., Mobarty C., Morris J., Moshel A.,  
 RA Mount S.M., Moy M., Murphy B., Murphy L., Muzny D.M., Nelson D.L.,  
 RA Nelson D.R., Nelson K.A., Nixon K., Nusken D.R., Pacleb J.M.,  
 RA Palazzolo M., Peltman G.S., Pan S., Pollard J., Puri V., Reese M.G.,  
 RA Reinert K., Remington K., Saunders R.D.C., Scheeler F., Shen H.,  
 RA Shue B.C., Siden-Kiamos I., Simpson M., Skipski M.P., Smith T.,  
 RA Spier E., Spradling A.C., Stapleton M., Strong R., Sun E.,  
 RA Svirkas R., Tector C., Turner R., Venter E., Wang A.H., Wang X.,  
 RA Wang Z.-Y., Wassarman D.A., Weinstein G.M., Weissbach J.,  
 RA Williams S.M., Woodage T., Worley K.C., Wu D., Yang S., Yao Q.A.,  
 RA Ye J., Yeh R.-F., Zaveri J.S., Zhan M., Zhang G., Zhao Q., Zheng L.,  
 RA Zhang X.H., Zhong F.N., Zhong W., Zhou X., Zhu S., Zhu X., Smith H.O.,  
 RA Gibbs R.A., Myers E.W., Rubin G.M., Venter J.C.,  
 RT "The genome sequence of Drosophila melanogaster.",  
 RL Science 287:2185-2195(2000).  
 CC -1- SUBCELLULAR LOCATION: INTEGRAL MEMBRANE PROTEIN (BY SIMILARITY).  
 DR EMBL/AF003753/AA56490.1; -.  
 DR FlyBase/FG0039354/CG5042.  
 DR InterPro/ IPR002106/ AATRNA\_1igaeeII.  
 DR InterPro/ IPR000276/ GPCR\_Rhodpsn.  
 DR Pfam/ PF00001/ 7tm\_1; 1.  
 DR PRINTS/ PR00237/ GPCRHOOPS.  
 DR PROSITE/ PS00339/ AA TRNA\_LIGASE\_II\_2; UNKNOWN\_1.  
 DR PROSITE/ PS00237/ G\_PROTEIN\_RECEP\_F1\_1; 1.  
 DR PROSITE/ PS00262/ G\_PROTEIN\_RECEP\_F1\_2; 1.  
 KW G-protein coupled receptor; Glycoprotein; Transmembrane.  
 SQ SEQUENCE 359 AA; 40880 MW; 71913BEBD7C9E739 CRC64;  
  
 Query Match 25.7%; Score 212.5; DB 5; Length 359;  
 Best Local Similarity 35.9%; Pred. No. 1.6e-13;  
 Matches 47; Conservative 24; Mismatches 55; Indels 5; Gaps 3;  
  
 QY 3 YSAVAFGLINLAFLIIVFSGSMFYVHQSATATETIRNOVKEMILAKREFPIVFTD 62  
 Db 199 YSAFVFLGVNLILVIMIMLYTALLISWTRR-SATPL--TLDDCEFAVFPFIVLTD 254  
  
 QY 63 ALCWIPFIYAKPLSLQVEIPGTTISWVIGSAINSLNPILYTLTRPFKEIMHFW 121  
 Db 255 FLCWPIIYWKIWFVFNYSIDIIYAMLVFVLPVNSALNPVLYTLTPKRYNQILRGW 314  
  
 QY 122 HNYRQRKMSDKIRKIMLHSS--GKGCRCRCH 132  
 Db 315 KLTTSKRAEA 325  
  
 RESULT 3  
 Q9DGC5 PRELIMINARY; PRT; 693 AA.  
 Q9DGC5;  
 01-MAR-2001 (TREMBlrel. 16, Created)  
 01-MAR-2001 (TREMBlrel. 16, Last sequence update)  
 01-DEC-2001 (TREMBlrel. 19, Last annotation update)  
 DE G-protein coupled receptor II.  
 GN TGRH-R11.  
 OS Oroschomys niloticus (Nile tilapia) (Tilapia nilotica).  
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 OC Actinopterygii; Neopteleostei; Teleostei; Euteleostei; Neoteleostei;  
 OC Acanthomorpha; Acanthopterygii; Perciformes; Labroidae;  
 OC Cichlidae; Oroschomys.  
 NCBI\_TaxID=8128;  
 RN 11

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RN
RE SEQUENCE FROM N.A.
RA Oba Y., Hirai T., Yoshikuni M., Nagahama Y.;
RT "Mittabed (APR-2000) to the EMBL/GenBank/DBJ databases.
RL Submitted (APR-2000) to the EMBL/GenBank/DBJ databases.
DR EMBL; AB041763; BAB16107.1; -.
DR HSSP; P22688; ILUT.
DR InterPro; IPR000276; GPCR_Rhodopsn.
DR InterPro; IPR001611; LRR.
DR Pfam; PF00001; 7tm_1; 1.
DR Pfam; PF00560; LRR; 14.
DR PRINTS; PR00237; GPCR_RHODOPS.
DR PROSITE; PS00237; G_PROTEIN_RECPT_F1_1; UNKNOWN_1.
DR PROSITE; PS50262; G_PROTEIN_RECPT_F1_2; 1.
DR Receptor.
SQ SEQUENCE 693 AA; 77856 MW; C3B8ED8BCFC8988 CRC64;

Query Match 18.6%; Score 154; DB 13; Length 693;
Best Local Similarity 34.5%; Pred. No. 2.8e-07;
Matches 40; Conservative 24; Mismatches 44; Indels 8; Gaps 4;

QY 1 AQIVSAIFGLINLAFFIIVFSYGSMEYVHQSATITAEIRNOYKEMILAKREFPIV 60
Db 524 AQVVAVAVLI-LNVAVFLVCCYICITLSVYNPEHSTR--RGDKT---IAKMAVAVLI 576

QY 61 TDALCWIFI-FVAKPLSLQVEIPGTTISWVYIGSAINSALNPLIYLTITRPPK 115
Db 577 TDFLCMAEISFPALISAALRMLPITVSHSKILILFYPINSLCNPLIYITFAFRK 632

RESULT 4
Q95Y16 PRELIMINARY; PRT; 1012 AA.
Q95Y16
AC Q95Y16;
DT 01-DEC-2001 (TREMBlrel. 19, Created)
DT 01-DEC-2001 (TREMBlrel. 19, Last sequence update)
DT 01-JUN-2002 (TREMBlrel. 21, Last annotation update)
DE Glycoprotein hormone receptor.
DE APGHR.
OS Ascarina pectinifera (Starfish).
OC Eukaryota; Metazoa; Echinodermata; Eleutherozoa; Asterozoa;
OC Asteroidea; Valvatacea; Valvatida; Asterinidae; Asterina.
OX NCBI_TaxId=7594;
RN [1]
RP SEQUENCE FROM N.A.
RA Mita M., Hirai T., Oba Y., Yoshikuni M., Nagahama Y.;
RT "cDNA cloning and functional analysis of a novel member of the
RT glycoprotein hormone receptor family from a starfish Asterina
RT pectinifera";
RL Submitted (MAY-2001) to the EMBL/GenBank/DBJ databases.
DR EMBL; AB061862; BAB68209.1; -.
DR InterPro; IPR002106; ALCRNA_1classet.
DR InterPro; IPR000276; GPCR_Rhodopsn.
DR InterPro; IPR001611; LRR.
DR InterPro; IPR000372; LRR_Nterm.
DR Pfam; PF00001; 7tm_1; 1.
DR Pfam; PF00560; LRR; 14.
DR SMART; SM00013; LRRNT; 1.
DR PROSITE; PS00039; AA_TRNA_LIGASE_II_2; UNKNOWN_1.
DR PROSITE; PS00237; G_PROTEIN_RECPT_F1_1; UNKNOWN_1.
DR PROSITE; PS50262; G_PROTEIN_RECPT_F1_2; 1.
DR Receptor.
SQ SEQUENCE 1012 AA; 112623 MW; 52A70E7A88C46E0A CRC64;

Query Match 17.9%; Score 148; DB 5; Length 1012;
Best Local Similarity 32.9%; Pred. No. 1.7e-06;
Matches 51; Conservative 27; Mismatches 51; Indels 26; Gaps 9

QY 1 AQIVSAIFGLINLAFFIIVFSYGSMEYVHQS-ALTATEIRNOYKEMILAKREFPIV 59
Db 719 AKYV-VESIIINILAVIIMACYASITAIQSHANNCNDSR-----VARMSELIV 769

QY 60 FTDALCWIFI-----FVAKPLSLQVEIPGTTISWVYIGSAINSALNPLIYLTITRPPK 114

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Db	770	FTDPAACVAPFI <sup>98</sup> SLTAAGLRILSIDGAKVLIT <sup>16</sup> FVL---	PLNSCANPFLYTLITLKQFK	825
Qy	115	---EMIHRFWEN--YRORKSMDSKGRKMLHSS	144	
Db	826	KCKCTIMSLSNRVFROR-SM-SRSITLISLGRRHS	858	

RESULT 5  
095YT7 PRELIMINARY; PRT; 1280 AA.

ID	095YT7	PRELIMINARY;	PRT;	1280 AA.
AC	095YT7			
DT	01-DEC-2001 (TREMBLrel. 19, Created)			
DT	01-DEC-2001 (TREMBLrel. 19, Last sequence update)			
DT	01-JUN-2002 (TREMBLrel. 21, Last annotation update)			
DE	Glycoprotein hormone receptor.			
GN	APOBHR.			
OS	Asterina pectinifera (Starfish).			
OC	Euryptora, Metazoa; Echinodermata; Eleutherozoa; Asterozoa;			
OC	Asteroidae; Valvatacea; Valvatida; Asterinidae; Asterina.			
OX	NCBI_TaxID=7594;			
RN	[1]			
RP	SEQUENCE FROM N.A.			
RA	Mita M., Hirai T., Oba Y., Yoshikuni M., Nagahama Y.;			
RT	"cDNA cloning and functional analysis of a novel member of the			
RT	glycoprotein hormone receptor family from a starfish Asterina			
RL	pectinifera".			
DR	Submitted (May-2001) to the EMBL/GenBank/DDBJ databases.			
DR	EMBL, AB061861; BAB68208.1; -			
DR	InterPro; IPR002106; AAKRNA_ligaseI.			
DR	InterPro; IPR000276; GPCR_Rhodopn.			
DR	InterPro; IPR001611; LRR.			
DR	InterPro; IPR000372; LRR_Nterm.			
DR	Pfam; PF00560; LRR_14.			
DR	SMART; SM00013; LRNT; 1.			
DR	PROSITE; PS00339; AA_TRNA_LIGASE_I_2; UNKNOWN_1.			
DR	PROSITE; PS00237; G_PROTEIN_RECPE_F1_1; UNKNOWN_1.			
DR	PROSITE; PS0262; G_PROTEIN_RECPE_F1_2; 1.			
KX	Receptor.			
SQ	SEQUENCE 1280 AA; 141700 MW; 0AB0ECCCD0D80BA CRC64;			

Query Match 17.9%; Score 148; DB 5; Length 1280;  
Best Local Similarity 32.9%; Pred. No. 2.2e-06;  
Matches 51; Conservative 27; Mismatches 51; Indels 26; Gaps 9;

Qy	1	AQIVSAIFLGLNLMAFFIVSYSGSMFVSQAS-AITATEIRNQVKEMILAKRPFPIV	59
Db	719	AKRY-VGSIIILINIITAIFVMACYSIYAIAIQSHAMNCNDNR-----VAKNMSLI	769
Qy	60	FDNALMWIP-----FVAFPLSLQVEIPGTITSWVVIYSAINSALNPILYTLTPPK	114
Db	770	FIDPACAPIAFPSLTAAIGLRILSIDGAKVLITFVL-----PLNSCANPFLYTLITLKQK	825
Qy	115	---EMIHRFWEN--YRORKSMDSKGRKMLHSS	144
Db	826	KCKCTIMSLSNRVFROR-SM-SRSITLISLGRRHS	858

RESULT 6  
098T85 PRELIMINARY; PRT; 696 AA.

ID	098T85	PRELIMINARY;	PRT;	696 AA.
AC	098T85			
DT	01-JUN-2001 (TREMBLrel. 17, Created)			
DT	01-JUN-2001 (TREMBLrel. 17, Last sequence update)			
DT	01-JUN-2002 (TREMBLrel. 21, Last annotation update)			
DE	Iuteinizing hormone receptor precursor.			
OS	Ictalurus punctatus (Channel catfish).			
OC	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;			
OC	Actinopterygii; Neopterygii; Teleostei; Ostariophysi; Siluriformes;			
OC	Ictaluriidae; Ictalurus.			
OX	NCBI_TaxID=7998;			
RN	[1]			

RP SEQUENCE FROM N.A.  
RX MEDLINE=21141975; PubMed=11207219;  
RA Sampath Kumar R., Jijir S., Tran J.M.;  
RT "Molecular Biology of Channel Catfish Gonadotropin Receptors: 1.  
RT Cloning of a Functional luteinizing Hormone Receptor and Preovulatory  
RT Induction of Gene Expression.";  
RL Biol. Reprod. 64:1010-1018(2001).  
DR EMBL; AF285181; AAK16066.1; -.  
DR HSSP; P22888; ILUT.  
DR InterPro; IPR000276; GPCR\_Rhodpn.  
DR InterPro; IPR000307; Ribosomal\_S16.  
DR Pfam; PF00001; 7tm\_1; 1.  
DR PRINTS; PR00237; GPCR\_RHODOPS.  
DR PROSITE; PS00237; G\_PROTEIN\_RECP\_F1\_1; UNKNOWN\_1.  
DR PROSITE; PS50262; G\_PROTEIN\_RECP\_F1\_2; 1.  
DR PROSITE; PS00732; RIBOSOMAL\_S16; UNKNOWN\_1.  
KW Receptor; Signal.  
FT SIGNAL 1 23  
SQ SEQUENCE 696 AA; 77822 MW; 4A1FB19CDE070AB6 CRC64;  
Query Match 17.4%; Score 143.5; DB 13; Length 696;  
Best Local Similarity 29.5%; Pred. No. 3.3e-06;  
Matches 49; Conservative 30; Mismatches 66; Indels 21; Gaps 6;  
QY 1 AOIYVAIFLGINLAFFIIIVFSYSGMFYSYHQSATATATETIRNQVKEMILAKRFFFIYF 60  
DB 527 SQGVVAIV-LVINVAALFVWCSYAGIYLSVRNPNVPTRRGHR-----MAKGMVLIIF 579  
QY 61 TDALCWIPF-FVAKPLSLQVEIPGTITTSWVIGYSAINSLNPLIYTLTRPFKE---- 115  
DB 580 TDFLCWAPISFFAISALHMPILSVSQSKILLILFYINSLCPFLYITPTFAFRDMCL 639  
QY 116 MHRFMVNYRQKSMDSKGI-----RKMLH--HSSGKCGHCR 152  
DB 640 LLSKCGCHQAERYRQGLIGFTLARKKRVKPKSKNFRAYHVK 685  
RESULT 7  
Q64183 PRELIMINARY; PRT; 688 AA.  
AC Q64183;  
DT 01-NOV-1996 (TrEMBLrel. 01, Created)  
DT 01-NOV-1996 (TrEMBLrel. 01, Last sequence update)  
DT 01-DEC-2001 (TrEMBLrel. 19, Last annotation update)  
DE Follicle-stimulating hormone receptor.  
OS Rattus sp.  
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Rattus.  
NCBI\_TaxID=10118;  
[1]  
RP SEQUENCE FROM N.A.  
RX MEDLINE=92149579; PubMed=1738373;  
RA Heckert L.L., Daley J.J., Griswold M.D.;  
RT "Structural organization of the follicle-stimulating hormone receptor  
RT gene.";  
RL Mol. Endocrinol. 6:70-80(1992).  
DR EMBL; S81198; AAB21415.2; -.  
DR EMBL; S81117; AAB21415.2; JOINED.  
DR EMBL; S81119; AAB21415.2; JOINED.  
DR EMBL; S81121; AAB21415.2; JOINED.  
DR EMBL; S81171; AAB21415.2; JOINED.  
DR EMBL; S81174; AAB21415.2; JOINED.  
DR EMBL; S81178; AAB21415.2; JOINED.  
DR EMBL; S81183; AAB21415.2; JOINED.  
DR EMBL; S81185; AAB21415.2; JOINED.  
DR EMBL; S81194; AAB21415.2; JOINED.  
DR HSSP; P23945; 1XUN.  
DR InterPro; IPR000276; GPCR\_Rhodpn.  
DR InterPro; IPR001611; LRR.  
DR InterPro; IPR000372; LRR\_Nterm.  
DR Pfam; PF00001; 7tm\_1; 1.  
DR Pfam; PF00560; LRR\_3; 1.  
DR Pfam; PF01462; LRRNT; 1.

DR SMART; SM00013; LRRNT; 1.  
DR PROSITE; PS00237; G\_PROTEIN\_RECP\_F1\_1; UNKNOWN\_1.  
DR PROSITE; PS50262; G\_PROTEIN\_RECP\_F1\_2; 1.  
KW Receptor.  
SQ SEQUENCE 688 AA; 77341 MW; 441F0D9E7D01DF18 CRC64;  
Query Match 16.9%; Score 139.5; DB 11; Length 688;  
Best Local Similarity 27.3%; Pred. No. 8.3e-06;  
Matches 47; Conservative 30; Mismatches 60; Indels 35; Gaps 6;  
QY 1 AOIYVAIFLGINLAFFIIIVFSYSGMFYSYHQSATATATETIRNQVKEMILAKRFFFIYF 60  
DB 522 SQLYVVAL-LVINVAALFVWICGCTHIIVTRNPTIVS-----SSDTKIAKRWATLIIF 574  
QY 61 TDALCWIPF-FVAKPLSLQVEIPGTITTSWVIGYSAINSLNPLIYTLTRPFKE---- 115  
DB 575 TDFLCWAPISFFAISASLKVPLITVSKAKILLVLYPINSCLNPLVLAIFKTRRRDPFI 634  
QY 116 MHRF-----WHNYRQKSMDSKGIKX-----MLHSS 144  
DB 635 LLSKCGYEMQAIVRTETTSATNHFARKSHCSAPRTNSYVLVPLNHSS 686

RESULT 8  
Q90XC7 PRELIMINARY; PRT; 307 AA.  
AC Q90XC7;  
DT 01-DEC-2001 (TrEMBLrel. 19, Created)  
DT 01-DEC-2001 (TrEMBLrel. 19, Last sequence update)  
DT 01-MAR-2002 (TrEMBLrel. 20, Last annotation update)  
DE Putative thyrotropin receptor TSHR (Fragment).  
OS Salmo salar (Atlantic salmon).  
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Actinopterygii; Neopterygii; Teleostei; Euteleostei;  
OC Protacanthopterygii; Salmoniformes; Salmonidae; Salmo.  
NCBI\_TaxID=8030;  
[1]  
RP SEQUENCE FROM N.A.  
RC TISSUE-Ovary.  
RA Yaderie F., Male R.;  
RT "Cloning and characterization of Atlantic salmon ovarian thyrotropin  
RT receptor (TSHR) like cDNA.";  
RL Submitted (AUG-2001) to the EMBL/GenBank/DBJ databases.  
DR EMBL; AF406603; AAK98600.1; -.  
DR InterPro; IPR000276; GPCR\_Rhodpn.  
DR Pfam; PF00001; 7tm\_1; 1.  
DR PROSITE; PS00237; G\_PROTEIN\_RECP\_F1\_1; UNKNOWN\_1.  
DR PROSITE; PS50262; G\_PROTEIN\_RECP\_F1\_2; 1.  
KW Receptor.  
FT NON TER 1 1  
SQ SEQUENCE 307 AA; 34289 MW; 0E3B8032DAF68470 CRC64;  
Query Match 16.7%; Score 138; DB 13; Length 307;  
Best Local Similarity 28.9%; Pred. No. 5e-06;  
Matches 35; Conservative 25; Mismatches 41; Indels 20; Gaps 4;  
QY 1 AOIYVAIFLGINLAFFIIIVFSYSGMFYSYHQSATATATETIRNQVKEMILAKRFFFIYF 60  
DB 115 AOIYVSVLI-LNLIAPLVICTCYMKIYVAVHNPPYSG-----SNTTIARMAIFIF 167  
QY 61 TDALCWIPF-FVAKPLSLQVEIPGTITTSWVIGYSAINSLNPLIYTLTRPFKE---- 113  
DB 168 TDFLCWAPISFFYMSPVVDRPL-----IVNSKILLVLYPLNSCLNPLVLAIFTKAF 221  
QY 114 K 114  
DB 222 R 222  
RESULT 9  
Q91949 PRELIMINARY; PRT; 814 AA.  
AC Q91949;



DT 01-OCT-2000 (Tremblrel. 15, Created)  
 DT 01-OCT-2000 (Tremblrel. 15, Last sequence update)  
 DT 01-JUN-2002 (Tremblrel. 21, Last annotation update)  
 DE Thyrotropin receptor A.  
 GN STSH-RA.  
 OS Oncorhynchus rhodurus (amago).  
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 OC Actinopterygii; Neopterygii; Teleostei; Euteleostei;  
 OC Proteanopterygii; Salmoniformes; Salmonidae; Oncorhynchus.  
 NCBI\_TaxID=41164;  
 RN [1]  
 RP SEQUENCE FROM N.A.  
 RX MEDLINE=20462948; PubMed=11006115;  
 RA Oda Y., Hirai T., Yoshitani Y., Kobayashi T., Nagahama Y.,  
 RT "Cloning, Functional Characterization, and Expression of Thyrotropin  
 RT Receptor in the Thyroid of Amago Salmon (Oncorhynchus rhodurus).",  
 RL Biochem. Biophys. Res. Commun. 276:258-263 (2000).  
 DR EMBL; AB030954; BAE07800.1; -.  
 DR HSSP; P16473; 1XUM.  
 DR InterPro; IPR000276; GPCR\_Rhodpn.  
 DR InterPro; IPR001611; LRR.  
 DR Pfam; PF00001; 7tm\_1; 1.  
 DR Pfam; PF00560; LRR; 1.  
 DR PRINTS; PR00237; GPCRHHODPSN.  
 DR PROSITE; PS00237; G\_PROTEIN\_RECP\_F1\_1; UNKNOWN\_1.  
 DR PROSITE; PS0262; G\_PROTEIN\_RECP\_F1\_2; 1.  
 DR Receptor.  
 SQ SEQUENCE 814 AA; 91091 MW; 1FC9A2AB8DC911E CRC64;

Query Match 16.2%; Score 134; DB 13; Length 814;  
 Best Local Similarity 26.8%; Pred. No. 3.6e-05;  
 Matches 44; Conservative 32; Mismatches 60; Indels 28; Gaps 6;

QY 1 AQTYSVAIFLGINLAFTIVSYSGSMFYSHQSAITATETIRNOVKEMILAKRFFIVF 60  
 DB 624 AQTYSVAIFLGINLAFTIVSYSGSMFYSHQSAITATETIRNOVKEMILAKRFFIVF 60  
 QY 61 TDALCWIPF-EVAKPLSLQVEIPGTITSMVIGYSAINSALNPILYTLTRPDK 114  
 DB 677 TDALCWIPF-EVAKPLSLQVEIPGTITSMVIGYSAINSALNPILYTLTRPDK 114  
 QY 115 -----EMIRFHWNYRQRKMSDKIRKMLHSSGKCGHCR 153  
 DB 737 LLSKVGLCQRRALFR-GQTVSSKG-----SSGVCQGRR 770

## RESULT 10

Q9DE63 PRELIMINARY; PRT; 424 AA.

DT 01-MAR-2001 (Tremblrel. 16, Created)  
 DT 01-MAR-2001 (Tremblrel. 16, Last sequence update)  
 DT 01-DEC-2001 (Tremblrel. 19, Last annotation update)  
 DE GnRH receptor-3 (Type III GnRH).  
 GN BFGNRH-3.  
 OS Rana catesbeiana (bull frog).  
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 OC Amphibia; Batrachia; Anura; Neobatrachia; Ranoidae; Rana.  
 NCBI\_TaxID=8400;  
 RN [1]  
 RP SEQUENCE FROM N.A.  
 RX MEDLINE=2106155; PubMed=1120886;  
 RA Wang L., Bogerd J., Choi H.S., Seong J.Y., Soh J.M., Chun S.Y.,  
 RA Blomenrohr M., Troskie B.E., Millar R.P., Yu W.H., McCann S.M.,  
 RT "Three distinct types of GnRH receptor characterized in the  
 RT bullfrog.",  
 RL Proc. Natl. Acad. Sci. U.S.A. 98:361-366 (2001).  
 RN [2]  
 RP SEQUENCE FROM N.A.  
 RX MEDLINE=21407809; PubMed=11517181;  
 RA Wang L., Oh D.Y., Bogerd J., Choi H.S., Ahn R.S., Seong J.Y.,

RA Kwon H.B.;  
 RT "Inhibitory activity of alternative splice variants of the bullfrog  
 RT GnRH receptor-3 on wild-type receptor signaling.",  
 RL Endocrinology 142:4015-4025 (2001).  
 DR EMBL; AF144062; AAG42574.1; -.  
 DR EMBL; AF224277; AAL11631.1; -.  
 DR InterPro; IPR000276; GPCR\_Rhodpn.  
 DR Pfam; PF00001; 7tm\_1; 1.  
 DR PRINTS; PR00237; GPCRHHODPSN.  
 DR PROSITE; PS0262; G\_PROTEIN\_RECP\_F1\_2; 1.  
 DR Receptor.  
 KW SEQUENCE 424 AA; 47613 MW; E771F7403AB44AD6 CRC64;

Query Match 16.2%; Score 133.5; DB 13; Length 424;  
 Best Local Similarity 22.6%; Pred. No. 2e-05;  
 Matches 44; Conservative 33; Mismatches 73; Indels 45; Gaps 6;

QY 3 IYSVAIFLGINLAFTIVSYSGSMFYSHQSAITATETIRNOVKEMILAKRFFIVF 52  
 DB 224 IYSVAIFLGINLAFTIVSYSGSMFYSHQSAITATETIRNOVKEMILAKRFFIVF 52  
 QY 53 KRFPIVFDALCWIPFIVA-----KPLSLQVEIPGTITSMVIGYSAINSALNPILY 106  
 DB 284 KNSLVIVLFYICWTPYLLGIWVSPSEMLTSRKVPSTL-SHILFLGLEPNTCLDPIY 342  
 QY 107 TLTPSPKEMIRFHWNYRQRKMSDKIRKMLHSSGKCGHCR 145  
 DB 343 GLFTHFREIRFHWNYRQRKMSDKIRKMLHSSGKCGHCR 145  
 QY 146 -----GKCGHCR 153  
 DB 403 TGVGLHSGKCHCR 417

## RESULT 11

Q8SPS8 PRELIMINARY; PRT; 701 AA.

AC Q8SPS8;  
 DT 01-JUN-2002 (Tremblrel. 21, Created)  
 DT 01-JUN-2002 (Tremblrel. 21, Last sequence update)  
 DT 01-JUN-2002 (Tremblrel. 21, Last annotation update)  
 DE Luteinizing hormone receptor.  
 OS Bos taurus (Bovine).  
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 OC Mammalia; Butheria; Cetartiodactyla; Ruminantia; Pecora; Bovidae;  
 OC Bovidae; Bovinae; Bos.  
 NCBI\_TaxID=9913;  
 RN [1]  
 RP SEQUENCE FROM N.A.  
 RC STRAIN=HOLSTEIN; TISSUE=CORPUS LUTEUM;  
 RA Kawate N., Tamada H., Inaba T., Sawada T.,  
 RT "Molecular cloning of a full-length cDNA encoding bovine luteinizing  
 RT hormone receptor and its expression in COS-7 cells.",  
 RL Submitted (MAR-2002) to the EMBL/GenBank/DBJ databases.  
 DR EMBL; AF491303; AAM09535.1; -.  
 KW Receptor.  
 SQ SEQUENCE 701 AA; 78455 MW; D70AB862B265CCF CRC64;

Query Match 16.0%; Score 132; DB 6; Length 701;  
 Best Local Similarity 29.6%; Pred. No. 4.9e-05;  
 Matches 34; Conservative 26; Mismatches 47; Indels 8; Gaps 3;

QY 1 AQTYSVAIFLGINLAFTIVSYSGSMFYSHQSAITATETIRNOVKEMILAKRFFIVF 60  
 DB 526 AQTYSVAIFLGINLAFTIVSYSGSMFYSHQSAITATETIRNOVKEMILAKRFFIVF 60  
 QY 61 TDALCWIPF-EVAKPLSLQVEIPGTITSMVIGYSAINSALNPILYTLTRPDK 114  
 DB 579 TDALCWIPF-EVAKPLSLQVEIPGTITSMVIGYSAINSALNPILYTLTRPDK 114

## RESULT 12

Q91948



```
ID Q91948 PRELIMINARY; PRT; 793 AA.
AC Q91948;
DT 01-OCT-2000 (TrEMBLrel. 15, Created)
DT 01-OCT-2000 (TrEMBLrel. 15, Last sequence update)
DT 01-DEC-2001 (TrEMBLrel. 19, Last annotation update)
DE Thyrotropin receptor B.
GN STSH-RB.
OS Oncorhynchus rhodurus (amago).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Actinopterygii; Neopterygii; Teleostei; Euteleostei;
OC Protacanthopterygii; Salmoniformes; Salmonidae; Oncorhynchus.
OX NCBI_TaxID=41164;
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=20462948; PubMed=11006115;
RA Oba Y., Hirai T., Yoshitura Y., Kobayashi T., Nagahama Y.;
RT "Cloning, functional characterization, and expression of thyrotropin
RT Receptors in the Thyroid of Amago Salmon (Oncorhynchus rhodurus).";
RL Biochem. Biophys. Res. Commun. 276:258-263(2000).
EMBL; AB030955; BAB07801.1; -.
HSSP; P16473; IXUM.
InterPro; IPR000276; GPCR_Rhodpsn.
InterPro; IPR001611; LRR.
DR Pfam; PF00001; 7tm.1; 1.
DR Pfam; PF00560; LRR; 1.
DR PRINTS; PR00237; GPCRHHODPSN.
DR PROSITE; PS00237; G_PROTEIN_RECP_F1_1; UNKNOWN_1.
DR PROSITE; PS50262; G_PROTEIN_RECP_F1_2; 1.
DR KEGG; K01001; 7tm.1; 1.
SQ SEQUENCE 793 AA; 89410 MW; 2842BF0D67ED93DC CRC64;

Query Match 16.0%; Score 132; DB 13; Length 793;
Best Local Similarity 27.3%; Pred. No. 5,6e-05;
Matches 33; Conservative 26; Mismatches 40; Indels 20; Gaps 4;

QY 1 AQIYSVAIFLGINLAFLIIVSYGSMFYVHQSATATETIRNQVKEMILAKRFFPIVF 60
DB 598 AQVYIISVL-I-LNLAFLVICCTCYKVIYCAVHNPYCSG-----SKDTNIAKSMALILF 650
QY 61 TDALCWIPF-----FVAKPLSLQVEIPGTITSWVWVIGYSAINSALNPILYLTTRPF 113
DB 651 TDFTCMAPISFYAMSAVVDRL-----ITVNSKILLVLFYPLNSCANPFLVAIFTKAF 704
QY 114 K 114
DB 705 R 705

ID Q15996 PRELIMINARY; PRT; 699 AA.
AC Q15996;
DT 01-NOV-1996 (TrEMBLrel. 01, Created)
DT 01-NOV-1996 (TrEMBLrel. 01, Last sequence update)
DT 01-DEC-2001 (TrEMBLrel. 19, Last annotation update)
DE Luteinizing hormone receptor.
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
OX NCBI_TaxID=9606;
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=92017881; PubMed=1922095;
RA Uta X.C., Okawa M., Bo M., Tanaka T., Ny T., Boime I., Heueh A.J.;
RT "Expression of human luteinizing hormone (LH) receptor: interaction
RT with LH and chorionic gonadotropin from human but not equine, rat, and
RT ovine species.";
RL Mol. Endocrinol. 5:759-768(1991).
EMBL; S57793; AAB19917.2; -.
HSSP; P22888; ILUT.
InterPro; IPR000276; GPCR_Rhodpsn.
InterPro; IPR001611; LRR.
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DR InterPro; IPR000372; LRR_Nterm.
DR Pfam; PF00001; 7tm.1; 1.
DR Pfam; PF00560; LRR; 3.
DR SMART; SM00013; LRRNT; 1.
DR PROSITE; PS00237; G_PROTEIN_RECP_F1_1; UNKNOWN_1.
DR PROSITE; PS50262; G_PROTEIN_RECP_F1_2; 1.
DR KEGG; K01001; 7tm.1; 1.
SQ SEQUENCE 699 AA; 78642 MW; 2E3D93F4E21BA842 CRC64;

Query Match 15.9%; Score 131; DB 4; Length 699;
Best Local Similarity 29.6%; Pred. No. 6,2e-05;
Matches 34; Conservative 25; Mismatches 48; Indels 8; Gaps 3;

QY 1 AQIYSVAIFLGINLAFLIIVSYGSMFYVHQSATATETIRNQVKEMILAKRFFPIVF 60
DB 524 SQVYITITLI-LNVVAFFLICCYKIIFAVRNPELWAT-----NKDTKIAKKKALILF 576
QY 61 TDALCWIPF-----FVAKPLSLQVEIPGTITSWVWVIGYSAINSALNPILYLTTRPF 114
DB 577 TDFTCMAPISFYAMSAVVDRL-----ITVNSKILLVLFYPLNSCANPFLVAIFTKAF 631

RESULT 14
ID Q14751 PRELIMINARY; PRT; 701 AA.
AC Q14751;
DT 01-NOV-1996 (TrEMBLrel. 01, Created)
DT 01-NOV-1996 (TrEMBLrel. 01, Last sequence update)
DT 01-JUN-2001 (TrEMBLrel. 17, Last annotation update)
DE LUTEINIZING hormone-choriogonadotropin receptor (luteinizing hormone
DE receptor).
GN LHGR OR LHR.
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
OX NCBI_TaxID=9606;
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=96023956; PubMed=7556872;
RA Atger M., Mirrahi M., Sar S., Leflem L., Dessen P., Milgrom E.;
RT "Structure of the human luteinizing hormone-choriogonadotropin
RT receptor gene: unusual promoter and 5' non-coding regions.";
RL Mol. Cell. Endocrinol. 111:113-123(1995).
RN [2]
RP SEQUENCE OF 1-56 FROM N.A.
RA Tsai-Morris C.H., Geng Y., Buczek E., Dufau M.L.;
RT "Human luteinizing hormone receptor gene containing 6 bp insertion in
RT exon 1 coding region with identical 5' flanking sequence as LHR2 exon
RT 1 coding region.";
RL Hum. Hered. 49:0-0(1999).
DR EMBL; X84753; CA59234.1; -.
DR EMBL; X84754; CA59234.1; JOINED.
DR EMBL; X84755; CA59234.1; JOINED.
DR EMBL; X84756; CA59234.1; JOINED.
DR EMBL; X84757; CA59234.1; JOINED.
DR EMBL; X84758; CA59234.1; JOINED.
DR EMBL; X84759; CA59234.1; JOINED.
DR EMBL; X84760; CA59234.1; JOINED.
DR EMBL; X84761; CA59234.1; JOINED.
DR EMBL; X84762; CA59234.1; JOINED.
DR EMBL; X84763; CA59234.1; JOINED.
DR EMBL; AF082076; AAC98291.1; -.
HSSP; P22888; ILUT.
InterPro; IPR000276; GPCR_Rhodpsn.
InterPro; IPR001611; LRR.
InterPro; IPR000372; LRR_Nterm.
DR Pfam; PF00001; 7tm.1; 1.
DR Pfam; PF00560; LRR; 3.
DR SMART; SM00013; LRRNT; 1.
DR PROSITE; PS00237; G_PROTEIN_RECP_F1_1; UNKNOWN_1.
DR PROSITE; PS50262; G_PROTEIN_RECP_F1_2; 1.
DR KEGG; K01001; 7tm.1; 1.
SQ SEQUENCE 701 AA; 78757 MW; E69FF5BABC409D4 CRC64;
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OM protein - protein search, using sw model

Run on: February 3, 2003, 14:19:02 ; Search time 22 Seconds  
(without alignments)  
209.973 Million cell updates/sec

Title: US-10-049-568-2

Perfect score: 826

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Searched: 262574 seqs, 29422922 residues

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Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

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- 3: /cgn2\_6/ptodata/2/1aa/6A\_COMB.pep:\*
- 4: /cgn2\_6/ptodata/2/1aa/6B\_COMB.pep:\*
- 5: /cgn2\_6/ptodata/2/1aa/PCUTUS\_COMB.pep:\*
- 6: /cgn2\_6/ptodata/2/1aa/backfile1.pep:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	147.5	17.9	792	4	US-07-741-453A-56
2	140.5	17.0	696	4	US-07-757-342D-4
3	139.5	16.9	682	4	US-07-757-342D-6
4	137.5	16.6	795	4	US-07-741-453A-55
5	136	16.5	370	1	US-08-118-270-18
6	136	16.5	370	5	PCT-US93-08528-18
7	134	16.2	700	4	US-07-757-342D-3
8	131	15.9	611	4	US-07-757-342D-8
9	131	15.9	636	4	US-07-757-342D-7
10	131	15.9	674	4	US-07-757-342D-10
11	131	15.9	699	4	US-07-757-342D-2
12	125.5	15.2	420	4	US-08-795-876-33
13	125.5	15.2	434	4	US-08-795-876-38
14	125.5	15.2	436	4	US-08-795-876-2
15	125.5	15.2	695	1	US-08-487-886-2
16	125.5	15.2	695	3	US-08-482-855-2
17	125.5	15.2	695	3	US-08-474-986-2
18	124	15.0	338	3	US-08-988-876-8
19	124	15.0	338	3	US-09-303-524A-2
20	123.5	15.0	325	2	US-08-467-948A-29
21	123.5	15.0	325	3	US-08-467-947A-29
22	122	14.8	764	4	US-07-741-453A-54
23	120.5	14.6	764	4	US-07-741-453A-54
24	119.5	14.5	332	1	US-08-293-563-5
25	119.5	14.5	378	4	US-09-082-088-2
26	119.5	14.5	378	4	US-09-546-117-2
27	119.5	14.5	517	2	US-08-467-568-10

28	119.5	14.5	517	2	US-09-030-582-10	Sequence 10, Appl
29	118.5	14.3	515	1	US-08-194-338-3	Sequence 3, Appl
30	118	14.3	764	4	US-07-741-453A-61	Sequence 61, Appl
31	117.5	14.2	336	4	US-08-118-270-54	Sequence 54, Appl
32	117.5	14.2	336	5	PCT-US93-08528-54	Sequence 54, Appl
33	117.5	14.2	420	4	US-09-255-368-6	Sequence 6, Appl
34	117.5	14.2	513	2	US-08-406-855A-21	Sequence 21, Appl
35	117.5	14.2	513	3	US-09-206-899-21	Sequence 21, Appl
36	117.5	14.2	515	1	US-08-444-734A-7	Sequence 21, Appl
37	117.5	14.2	515	1	US-08-722-001-25	Sequence 25, Appl
38	117.5	14.2	515	2	US-08-406-855A-22	Sequence 25, Appl
39	117.5	14.2	515	3	US-09-206-899-22	Sequence 22, Appl
40	117.5	14.2	515	4	US-09-033-742-5	Sequence 22, Appl
41	117.5	14.2	515	4	US-09-688-415-9	Sequence 5, Appl
42	117.5	14.2	515	4	US-09-688-415-10	Sequence 9, Appl
43	117.5	14.2	764	4	US-07-757-342D-5	Sequence 10, Appl
44	117.5	14.2	764	4	US-07-741-453A-59	Sequence 59, Appl
45	117	14.2	332	1	US-08-349-696-23	Sequence 23, Appl

ALIGNMENTS

RESULT 1  
US-07-741-453A-56  
; Sequence 56, Application US/07741453A  
; Patent No. 6228597  
; GENERAL INFORMATION:  
; APPLICANT: PARMENTER, MARC  
; APPLICANT: LIBERT, FREDERIC  
; APPLICANT: DUMONT, JACQUES  
; APPLICANT: VASSART, GILBERT  
; TITLE OF INVENTION: POLYPEPTIDES HAVING THYROTROPIN-RECEPTOR  
; TITLE OF INVENTION: ACTIVITY, NUCLEIC ACID SEQUENCES CODING FOR SUCH RECEPTORS  
; NUMBER OF SEQUENCES: 62  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: CUSHMAN DABY & CUSHMAN  
; STREET: 1615 L STREET, N.W.  
; CITY: WASHINGTON, D.C.  
; COUNTRY: U.S.A.  
; ZIP: 20036  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Disk  
; OPERATING SYSTEM: IBM PC compatible  
; SOFTWARE: PC-DOS/MS-DOS  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/07/741,453A  
; FILING DATE: 19911015  
; CLASSIFICATION: 435  
; ATTORNEY/AGENT INFORMATION:  
; NAME: KOKULIS, PAUL N.  
; REGISTRATION NUMBER: 16773  
; REFERENCE/DOCKET NUMBER: 91913/1107/US/ST  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (202) 861-3000  
; TELEFAX: (202) 822-0944  
; TELEX: 6714627 CUSH  
; INFORMATION FOR SEQ ID NO: 56:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 792 amino acids  
; TYPE: AMINO ACID  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
; US-07-741-453A-56  
Query Match 17.9%; Score 147.5; DB 4; Length 792;  
Best Local Similarity 25.9%; Pred. No. 8.9e-08;  
Matches 42; Conservative 27; Mismatches 60; Indels 33; Gaps 4;  
OY 1 AQLYSVAIFL-----GINLAFAIIIVSYGSMFYVQSAITATEIRNQVKEMILAKRF 55

```

Db      596  S Q V Y I L T I L P I G H C G N V A F I I I C A C Y I K I F A V A N P E L M A T -----NDOTKIAKKKA 649
      56  F F I V F T D A L C M I P I F V A K P L S L O V E -----I P G T I T S W V V I G Y S A I N S A L N P I L Y T L 108
      650  A V I L F T D T C M A P I G H C G I S F P A I S A L K V P L I T V N S K V L L V L F Y P V N S C A N P L Y A I 709
Qy      109  T T R P E K E M I R F M H N Y R O R K S M D S K I R K M L H S S G K C G H 150
      710  F T K A F R -----D P I G H C G F F L L S K S G C C K H 736

```

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RESULT 2
US-07-757-342D-4
; Sequence 4, Application US/07757342D
; Patent No. 6218509
; GENERAL INFORMATION:
; APPLICANT: IGARASHI, Masao
; MINGISHI, Takashi
; NAKAMURA, Kazuo
; TITLE OF INVENTION: PROTEIN, DNA AND USE THEREOF
; NUMBER OF SEQUENCES: 10
; CORRESPONDENCE ADDRESSES:
; ADDRESSEE: DAVID G. CONLIN, DIKE, BRONSTEIN, ROBERTS &
; CUSHMAN
; STREET: 130 Water Street
; CITY: Boston
; STATE: Massachusetts
; COUNTRY: US
; ZIP: 02109
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/757,342D
; FILING DATE: 10-Sep-1991
; CLASSIFICATION: <Unknown>
; ATTORNEY/AGENT INFORMATION:
; NAME: BUCKLEY, Linda M.
; REGISTRATION NUMBER: 31003
; REFERENCE/DOCKET NUMBER: 41226
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617)523-3400
; TELEFAX: (617)523-6440
; TELEX: 200291 STRE UR
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 696 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; SEQUENCE DESCRIPTION: SEQ ID NO: 4:
US-07-757-342D-4

```

```

Query Match      17.0%; Score 140.5; DB 4; Length 696;
Best Local Similarity 27.2%; Pred. No. 4.4e-07;
Matches 41; Conservative 26; Mismatches 55; Indels 29; Gaps 4;

Qy      1  A Q I Y S V A I F L G I N L A F I I V F S Y S G M F Y S H Q S A I T A T E I R N O V K E M I A K R F F I V F 60
      524  S Q V Y I L T I L P I G H C G N V A F I I I C A C Y I K I F A V A N P E L M A T -----NDOTKIAKKKA 576
Db      61  T D A L C M I P I F V A K P L S L O V E I P G T I T S W V V I G Y S A I N S A L N P I L Y T L T T R P E K E M I R 119
      577  T D F T C M A P I S F P A I S A L K V P L I T V N S K V L L V L F Y P V N S C A N P L Y A I F T K A F R ----- 631
Qy      120  F M H N Y R O R K S M D S K I R K M L H S S G K C G H 150
      632  -----R D F F L L S K S G C C K H 646
Db

```

```

RESULT 3
US-07-757-342D-6
; Sequence 6, Application US/07757342D
; Patent No. 6218509
; GENERAL INFORMATION:
; APPLICANT: IGARASHI, Masao
; MINGISHI, Takashi
; NAKAMURA, Kazuo
; TITLE OF INVENTION: PROTEIN, DNA AND USE THEREOF
; NUMBER OF SEQUENCES: 10
; CORRESPONDENCE ADDRESSES:
; ADDRESSEE: DAVID G. CONLIN, DIKE, BRONSTEIN, ROBERTS &
; CUSHMAN
; STREET: 130 Water Street
; CITY: Boston
; STATE: Massachusetts
; COUNTRY: US
; ZIP: 02109
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/757,342D
; FILING DATE: 10-Sep-1991
; CLASSIFICATION: <Unknown>
; ATTORNEY/AGENT INFORMATION:
; NAME: BUCKLEY, Linda M.
; REGISTRATION NUMBER: 31003
; REFERENCE/DOCKET NUMBER: 41226
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617)523-3400
; TELEFAX: (617)523-6440
; TELEX: 200291 STRE UR
; INFORMATION FOR SEQ ID NO: 6:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 692 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; SEQUENCE DESCRIPTION: SEQ ID NO: 6:
US-07-757-342D-6

```

```

Query Match      16.9%; Score 139.5; DB 4; Length 692;
Best Local Similarity 27.3%; Pred. No. 5.6e-07;
Matches 47; Conservative 30; Mismatches 60; Indels 35; Gaps 6;

Qy      1  A Q I Y S V A I F L G I N L A F I I V F S Y S G M F Y S H Q S A I T A T E I R N O V K E M I A K R F F I V F 60
      526  S Q V Y I L T I L P I G H C G N V A F I I I C A C Y I K I F A V A N P I V S -----S D T K I A K R M A T L I F 578
Db      61  T D A L C M I P I F V A K P L S L O V E I P G T I T S W V V I G Y S A I N S A L N P I L Y T L T T R P E K E M I R 115
      579  T D F T C M A P I S F P A I S A L K V P L I T V N S K V L L V L F Y P V N S C A N P L Y A I F T K A F R D E F I 638
Qy      116  M I H R F -----M H N Y R O R K S M D S K I R K M L H S S 144
      639  L I S K F C Y E M Q A I Y R T E T S A I T H F A R K S C S A P A V T N S Y V L P L N H S 690
Db

```

```

RESULT 4
US-07-741-453A-55
; Sequence 55, Application US/07741453A
; Patent No. 6228597
; GENERAL INFORMATION:
; APPLICANT: PARMENTIER, MARC
; APPLICANT: LIBERT, FREDERIC
; APPLICANT: DUMONT, JACQUES
; APPLICANT: VASSART, GILBERT
; TITLE OF INVENTION: POLYPEPTIDES HAVING THYROTROPIN-RECEPTOR
; ACTIVITY, NUCLEIC ACID SEQUENCES CODING FOR SUCH RECEPTORS
; AND POLYPEPTIDES, AND APPLICATIONS OF THESE POLYPEPTIDES

```

NUMBER OF SEQUENCES: 62  
CORRESPONDENCE ADDRESS:  
ADDRESSER: CUSHMAN DAREY & CUSHMAN  
STREET: 1615 L STREET, N.W.  
CITY: WASHINGTON, D.C.  
COUNTRY: U.S.A.  
ZIP: 20036  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/07/741,453A  
FILING DATE: 19911015  
CLASSIFICATION: 435  
ATTORNEY/AGENT INFORMATION:  
NAME: KOKULIS, PAUL N.  
REGISTRATION NUMBER: 16773  
REFERENCE/DOCKET NUMBER: 91913/1107/US/ST  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (202) 861-3000  
TELEFAX: (202) 822-0944  
TELEX: 6714627 CUSH  
INFORMATION FOR SEQ ID NO: 55:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 795 amino acids  
TYPE: AMINO ACID  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-07-741-453A-55

Query Match 16.6%; Score 137.5; DB 4; Length 795;  
Best Local Similarity 21.9%; Pred. No. 1.1e-06;  
Matches 43; Conservative 38; Mismatches 64; Indels 51; Gaps 7;

QY 1 AQIYVAFL-----GILAAFIIVSYSGMFSVHQSATATIRNOVKEMILAKRF 55  
DB 599 SQVYLSILIRATHGCLVAVVACIYIRYFAVQNPBLTAP-----NKDKIKAKM 652  
QY 56 FIVFTDALCWPPIFAKPLSLQVE-----IPGITTSWVIGYSAINSAALNPILYTL 108  
DB 653 ALITDPTCMARATHGCEISFAISAKVPLIVTNSKILLVLFYVNSCAMPFLVAYI 712  
QY 109 TTRPKE-----MIRFW-----HNYRORK-----SMDSKGIK 137  
DB 713 FYKAFQBRATHGFLILSRFGCKRRALYRKEFSAYTSNCKNGPFGASKPSQATLK 772  
QY 138 HMLHSSGGKCGHCR 153  
DB 773 --LSTYRATHGHCQO 786

RESULT 5  
US-08-118-270-18  
Sequence 18, Application US/08118270  
Patent No. 5508384  
GENERAL INFORMATION:  
APPLICANT: Murphy, Randall B.  
APPLICANT: Schuster, David I.  
TITLE OF INVENTION: POLYPEPTIDES OF G-COUPLED PROTEIN  
TITLE OF INVENTION: RECEPTORS, AND COMPOSITIONS AND METHODS THEREOF  
NUMBER OF SEQUENCES: 348  
CORRESPONDENCE ADDRESS:  
ADDRESSER: BROWDY AND NEIMARK  
STREET: 419 Seventh Street, N.W., Suite 300  
CITY: Washington  
STATE: D.C.  
COUNTRY: USA  
ZIP: 20004  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/118,270  
FILING DATE: 09-SEP-1993  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/943,236  
FILING DATE: 10-SEP-1992  
ATTORNEY/AGENT INFORMATION:  
NAME: Townsend, Kevin G.  
REGISTRATION NUMBER: 34,033  
REFERENCE/DOCKET NUMBER: MURPHY-2A  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 202-628-5197  
TELEFAX: 202-737-3528  
TELEX: 248633  
INFORMATION FOR SEQ ID NO: 18:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 370 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
US-08-118-270-18

Query Match 16.5%; Score 136; DB 1; Length 370;  
Best Local Similarity 28.5%; Pred. No. 6.3e-07;  
Matches 39; Conservative 24; Mismatches 50; Indels 24; Gaps 5;

QY 2 QIYVAIFGILAAFIIVSYSGMFSV-----HQSATITETIRNOVKEMILAK 53  
DB 178 RYIVAKRTTKLGVGMKEMS-NSKFTLRLIHWSKNFEDTISTKAGNPRSSIAVK 236  
QY 54 REFF-----IVFDALCWPPIFAKPLSLQVEIPGITTSWVIGYSAINSA 100  
DB 237 LFFSSEKRAAKTLGIVGMILCWLFFLALPGSLFSTLKEPDVAFKFWLGY--FNSC 294  
QY 101 LNPILYTLTTRPKEMI 117  
DB 295 LNPILYPCSKKEFKAL 311

RESULT 6  
PCT-US93-08528-18  
Sequence 18, Application PC/TUS9308528  
GENERAL INFORMATION:  
APPLICANT: New York University  
TITLE OF INVENTION: POLYPEPTIDES OF G-COUPLED PROTEIN  
TITLE OF INVENTION: RECEPTORS, AND COMPOSITIONS AND METHODS THEREOF  
NUMBER OF SEQUENCES: 348  
CORRESPONDENCE ADDRESS:  
ADDRESSER: BROWDY AND NEIMARK  
STREET: 419 Seventh Street, N.W., Suite 300  
CITY: Washington  
STATE: D.C.  
COUNTRY: USA  
ZIP: 20004  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: PCT/US93/08528  
FILING DATE: 09-SEP-1993  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/943,236  
FILING DATE: 10-SEP-1992  
ATTORNEY/AGENT INFORMATION:  
NAME: Townsend, Kevin G.  
REGISTRATION NUMBER: 34,033  
REFERENCE/DOCKET NUMBER: MURPHY-2 PCT

[illegible]

```

Query Match 16.2%; Score 134; DB 4; Length 700;
Best Local Similarity 27.2%; Pred. No. 2.2e-06;
Matches 34; Conservative 31; Mismatches 48; Indels 12; Gaps 4;

QY 1 AQIVSAIFGIMLAFFIIVFSGMFSVHQSATATATEIRNOVKEMILAKRFFIIF 60
Db 528 SQYIILSLI-LNVAVFVICACIYIIRYAVONPELTAP-----NKDTYIKAKMILIF 580
QY 61 TDLACWIPF-FVAKPISLLQVEIIGTITSVWVIGSAINSAINLPILYTLTRPFE 115
Db 581 TDFTCWAPISFFFAISAFKVPILITVNSKILVLFPVNSCANPFLYALFTAFQDFLL 640
QY 116 MHRF 120
Db 641 LLSRF 645

RESULT 8
US-07-757-342D-8
; Sequence 8, Application US/07757342D
; Patent No. 6218509
; GENERAL INFORMATION:
; APPLICANT: IGARASHI, Masao
; MINEGISHI, Takashi
; NAKAMURA, Kazuo
; TITLE OF INVENTION: PROTEIN, DNA AND USE THEREOF
; NUMBER OF SEQUENCES: 10
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: DAVID G. CONLIN; DIKE, BRONSTEIN, ROBERTS & CUSHMAN
; STREET: 130 Water Street
; CITY: Boston
; STATE: Massachusetts
; COUNTRY: US
; ZIP: 02109
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/757,342D
; FILING DATE: 10-Sep-1991
; CLASSIFICATION: <Unknown>
; ATTORNEY/AGENT INFORMATION:
; NAME: BUCKLEY, Linda M.
; REGISTRATION NUMBER: 31003
; REFERENCE/DOCKET NUMBER: 41226
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617)523-3400
; TELEFAX: (617)523-6440
; TELEX: 200291 STRE UR
; INFORMATION FOR SEQ ID NO: 8:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 611 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; SEQUENCE DESCRIPTION: SEQ ID NO: 8:
; US-07-757-342D-8

Query Match 15.9%; Score 131; DB 4; Length 611;
Best Local Similarity 29.6%; Pred. No. 4e-06;
Matches 34; Conservative 25; Mismatches 48; Indels 8; Gaps 3;

QY 1 AQIVSAIFGIMLAFFIIVFSGMFSVHQSATATATEIRNOVKEMILAKRFFIIF 60
Db 436 SQYIILSLI-LNVAVFVICACIYIIRYAVONPELTAP-----NKDTYIKAKMILIF 488
QY 61 TDLACWIPF-FVAKPISLLQVEIIGTITSVWVIGSAINSAINLPILYTLTRPFE 114
Db 489 TDFTCWAPISFFFAISAFKVPILITVNSKILVLFPVNSCANPFLYALFTAFQDFLL 543

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```
RESULT 14
US-08-795-876-2
; Sequence 2, Application US/08795876
; Patent No. 6403305
; GENERAL INFORMATION:
; APPLICANT: Gershengorn, Marvin C.
; APPLICANT: Geras-Raaka, Elizabeth
; APPLICANT: Nussenzveig, Daniel R.
; TITLE OF INVENTION: STRATEGY TO CLONE DRUGS FOR G PROTEIN
; TITLE OF INVENTION: COUPLED RECEPTORS
; NUMBER OF SEQUENCES: 44
; CORRESPONDENCE ADDRESS:
; ADDRESS: NIXON, HARGRAVE, DEVANS & DOYLE LLP
; STREET: Clinton Square, P.O. Box 1051
; CITY: Rochester
; STATE: New York
; COUNTRY: USA
; ZIP: 14603
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/795,876
; FILING DATE:
; CLASSIFICATION: 530
; ATTORNEY/AGENT INFORMATION:
; NAME: BRAMAN, SUSAN J.
; REGISTRATION NUMBER: 34,103
; REFERENCE/DOCKET NUMBER: 19603/1280
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 716-263-1636
; TELEFAX: 716-263-1600
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 436 amino acids
; TYPE: amino acid
; STRANDEDNESS: not relevant
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-08-795-876-2

Query Match      15.2%; Score 125.5; DB 4; Length 436;
Best Local Similarity 26.1%; Pred. No. 1,1e-05;
Matches 43; Conservative 30; Mismatches 59; Indels 33; Gaps 6;

1 AQLYSVAIFGLINLAFLIIVFSYSGMFYSVHQSATTAETIRNQVKEMILAKRPFPIVF 60
   ||::||::||::||::||::||::||::||::||::||::||::||::||::||::||
Db 268 SQLYVMSL-LVNLVLAFLVYICGCIHIVLVRNPNISS-----SSDRIAKRMAMLI 320
   |||||
QY 61 TDLCLWIPF-FVAKPLSLQVEIPGITTSWVVGYSAINSAFLIYTLTPPFK----- 114
   |||||
Db 321 TDFLCAPLISFFLISASLKVPLLTIVSKAKILLVLFHPINSCANPLFYALFTKNFRDPI 380
   |||||
QY 115 -----EMIRFHMNYRORCKMSDKGIRKMLHSSGSGKCHC 151
   |||||
Db 381 LLSKCGCYEMQAOI---YRRTSTSTV-----HNTPRNGHC 413
   |||||

RESULT 15
US-08-487-886-2
; Sequence 2, Application US/08487886
; Patent No. 5744448
; GENERAL INFORMATION:
; APPLICANT: Kelton, Christie Ann
; APPLICANT: Schweichardt, Rene Lynn
; APPLICANT: Cheng, Shirley Vui Yen
; APPLICANT: Nugent, No. 5744448een Patrice
; TITLE OF INVENTION: Human Follicle Stimulating
; TITLE OF INVENTION: Hormone Receptor
; NUMBER OF SEQUENCES: 2
```

```
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Stephan P. Williams,
; ADDRESSEE: Ares-Serono, Inc.
; STREET: Exchange Place, 37th floor
; CITY: Boston
; STATE: MA
; COUNTRY: USA
; ZIP: 02109
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" diskette, 1.44 MB, high density
; COMPUTER: IBM PS/2, model 55 SX
; OPERATING SYSTEM: MS-DOS version 4.0
; SOFTWARE: VAX/VMS Mass11 via Kermit to IBM MS-DOS
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/487,886
; FILING DATE: 07-JUN-1995
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 07/670,085
; FILING DATE: 15-MAR-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: Williams, Stephan P.
; REGISTRATION NUMBER: 28546
; REFERENCE/DOCKET NUMBER: US/252
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 723-1300
; TELEFAX: (617) 723-8923
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 695
; TYPE: Amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; FEATURE:
; NAME/KEY: signal sequence
; LOCATION: -17 to -1
; IDENTIFICATION METHOD: hydrophobic
; FEATURE:
; NAME/KEY: putative amino-terminal extracellular domain
; LOCATION: 1 to 349
; IDENTIFICATION METHOD: similarity with other
; IDENTIFICATION METHOD: dimeric glycoprotein receptor extracellular
; IDENTIFICATION METHOD: domains, hydrophilic
; FEATURE:
; NAME/KEY: transmembrane domain
; LOCATION: 350 to 613
; IDENTIFICATION METHOD: similarity to other G
; IDENTIFICATION METHOD: protein-coupled receptor transmembrane domains
; FEATURE:
; NAME/KEY: putative transmembrane region I
; LOCATION: 350 to 370
; IDENTIFICATION METHOD: similarity to other G
; IDENTIFICATION METHOD: protein-coupled receptor transmembrane regions,
; IDENTIFICATION METHOD: hydrophobic, about 20-23 amino acids in length
; FEATURE:
; NAME/KEY: putative transmembrane region II
; LOCATION: 382 to 404
; IDENTIFICATION METHOD: similarity to other G
; IDENTIFICATION METHOD: protein-coupled receptor transmembrane regions,
; IDENTIFICATION METHOD: hydrophobic, about 20-23 amino acids in length
; FEATURE:
; NAME/KEY: putative transmembrane region III
; LOCATION: 427 to 448
; IDENTIFICATION METHOD: similarity to other G
; IDENTIFICATION METHOD: protein-coupled receptor transmembrane regions,
; IDENTIFICATION METHOD: hydrophobic, about 20-23 amino acids in length
; FEATURE:
; NAME/KEY: putative transmembrane region IV
; LOCATION: 469 to 491
; IDENTIFICATION METHOD: similarity to other G
; IDENTIFICATION METHOD: protein-coupled receptor transmembrane regions,
; IDENTIFICATION METHOD: hydrophobic, about 20-23 amino acids in length
; FEATURE:
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NAME/KEY: putative transmembrane region V
LOCATION: 512 to 533
IDENTIFICATION METHOD: similarity to other G
IDENTIFICATION METHOD: protein-coupled receptor transmembrane regions,
IDENTIFICATION METHOD: about 20-23 amino acids in length
FEATURE:
NAME/KEY: putative transmembrane region VI
LOCATION: 557 to 580
IDENTIFICATION METHOD: similarity to other G
IDENTIFICATION METHOD: protein-coupled receptor transmembrane regions,
IDENTIFICATION METHOD: about 20-23 amino acids in length
FEATURE:
NAME/KEY: putative transmembrane region VII
LOCATION: 592 to 613
IDENTIFICATION METHOD: similarity to other G
IDENTIFICATION METHOD: protein-coupled receptor transmembrane regions,
IDENTIFICATION METHOD: about 20-23 amino acids in length
FEATURE:
NAME/KEY: putative carboxy-terminal intracellular
NAME/KEY: domain
LOCATION: 614 to 678
DB-08-487-886-2
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Query Match 15.2%; Score 125.5; DB 1; Length 695;
Best Local Similarity 26.1%; Pred. No. 1.8e-05;
Matches 43; Conservative 30; Mismatches 59; Indels 33; Gaps 6;
```

```
QY 1 AQIYSVAIFGIDINLAFTIIVFSYGSMEFYSVHQSATITATEIRNQVKKEMILAKRFFPIV 60
   ||::||::||::||::||::||::||::||::||::||::||::||::||::||::||
DB 527 SOLVMSL-LVNLVLAFAVVICGVYIHLYLRNPNIIVSS-----SSDTRIAKRMAMLI 579
   ||::||::||::||::||::||::||::||::||::||::||::||::||::||::||
QY 61 TDALCWIRI-FVAKPLSLQVEIPETITSWVIGSAINSALNPILYTLTRPFK----- 114
   |||||::||::||::||::||::||::||::||::||::||::||::||::||::||
DB 580 TDFLCMAPISEFFAISASLKVPLITVSKAKILLVLFHPINSCANPFLYAITKFRDFFI 639
   |||||::||::||::||::||::||::||::||::||::||::||::||::||::||
QY 115 -----EMIRFWHNYRQRKSMDSKGRKXKMLHSSGKGGHC 151
   |||||::||::||::||::||::||::||::||::||::||::||::||::||::||
DB 640 LLSKCGCYEMQAQT---YRTETSSIV-----HNTHPRNGHC 672
   |||||::||::||::||::||::||::||::||::||::||::||::||::||::||
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Search completed: February 3, 2003, 14:23:15
Job time : 23 secs
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GenCore version 5.1.3  
Copyright (c) 1993 - 2003 Compugen Ltd.

OM protein - protein search, using sw model

Run on: February 3, 2003, 14:21:18 ; Search time 17 Seconds  
(without alignments)  
186.355 Million cell updates/sec

Title: US-10-049-568-2  
Perfect score: 856  
Sequence: 1 AQLYSVAIFLGINIAAFIL.....HMLHSSGKCHCRCHLS 157

Scoring table: BLOSUM62  
Gapop 10.0 , Gapect 0.5

Searched: 122226 seqs, 20178551 residues  
1 number of hits satisfying chosen parameters: 122226

Minimum DB seq length: 0  
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

- Database :
- 1: /cgn2\_6/ptodata/2/pubpaa/US08\_NEW\_PUB pep.\*
  - 2: /cgn2\_6/ptodata/2/pubpaa/PCT\_NEW\_PUB pep.\*
  - 3: /cgn2\_6/ptodata/2/pubpaa/US06\_NEW\_PUB pep.\*
  - 4: /cgn2\_6/ptodata/2/pubpaa/US06\_PUBCOMB pep.\*
  - 5: /cgn2\_6/ptodata/2/pubpaa/US07\_NEW\_PUB pep.\*
  - 6: /cgn2\_6/ptodata/2/pubpaa/US07\_PUBCOMB pep.\*
  - 7: /cgn2\_6/ptodata/2/pubpaa/PCTUS\_PUBCOMB pep.\*
  - 8: /cgn2\_6/ptodata/2/pubpaa/US08\_PUBCOMB pep.\*
  - 9: /cgn2\_6/ptodata/2/pubpaa/US09\_NEW\_PUB pep.\*
  - 10: /cgn2\_6/ptodata/2/pubpaa/US09\_PUBCOMB pep.\*
  - 11: /cgn2\_6/ptodata/2/pubpaa/US10\_NEW\_PUB pep.\*
  - 12: /cgn2\_6/ptodata/2/pubpaa/US10\_PUBCOMB pep.\*
  - 13: /cgn2\_6/ptodata/2/pubpaa/US60\_NEW\_PUB pep.\*
  - 14: /cgn2\_6/ptodata/2/pubpaa/US60\_PUBCOMB pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	638	77.2	396	10 US-09-895-686-4	Sequence 4, Appli
2	638	77.2	757	10 US-09-928-175-24	Sequence 24, Appl
3	632	76.5	176	9 US-09-989-442-105	Sequence 105, App
4	632	76.5	176	10 US-09-764-853-557	Sequence 557, App
5	632	76.5	176	10 US-09-764-877-2009	Sequence 2009, App
6	409	49.5	718	10 US-09-928-175-21	Sequence 21, Appl
7	409	49.5	718	10 US-09-928-175-20	Sequence 20, Appl
8	392.5	47.5	646	10 US-09-928-175-13	Sequence 13, Appl
9	392.5	47.5	682	10 US-09-928-175-12	Sequence 12, Appl
10	392.5	47.5	694	10 US-09-928-175-8	Sequence 8, Appli
11	392.5	47.5	718	10 US-09-928-175-3	Sequence 3, Appli
12	392.5	47.5	730	10 US-09-928-175-7	Sequence 7, Appli
13	392.5	47.5	754	10 US-09-928-175-2	Sequence 2, Appli
14	139.5	16.9	675	10 US-09-877-804-7	Sequence 7, Appli
15	139.5	16.9	692	10 US-09-877-804-6	Sequence 6, Appli
16	134	16.2	674	10 US-09-877-804-3	Sequence 3, Appli
17	134	16.2	700	10 US-09-877-804-2	Sequence 2, Appli
18	131	15.9	458	10 US-09-862-7674-5	Sequence 5, Appli
19	131	15.9	699	10 US-09-804-626-6	Sequence 6, Appli

ALIGNMENTS

20	130	15.7	861	10 US-09-804-5518-20	Sequence 20, Appl
21	125.5	15.2	698	10 US-09-862-7674-9	Sequence 9, Appli
22	125.5	15.2	655	10 US-09-804-626-8	Sequence 8, Appli
23	124	15.0	538	10 US-09-919-497-77	Sequence 77, Appl
24	121	14.6	764	9 US-10-045-6248-2	Sequence 2, Appli
25	119.5	14.5	378	9 US-09-971-228-7	Sequence 7, Appli
26	119.5	14.5	378	10 US-09-842-316-7	Sequence 7, Appli
27	119.5	14.5	378	10 US-09-731-0304-18	Sequence 18, Appl
28	119.5	14.5	378	12 US-10-037-616-21	Sequence 21, Appl
29	119.5	14.5	398	10 US-09-815-333-2	Sequence 2, Appli
30	119.5	14.5	398	10 US-09-842-316-2	Sequence 2, Appli
31	119.5	14.5	398	12 US-10-037-616-26	Sequence 26, Appl
32	119.5	14.5	517	10 US-09-951-622-10	Sequence 10, Appl
33	118.5	14.3	338	10 US-09-826-508-20	Sequence 20, Appl
34	117.5	14.2	332	9 US-09-985-442-127	Sequence 127, App
35	117.5	14.2	332	10 US-09-764-853-660	Sequence 660, App
36	117.5	14.2	420	9 US-09-866-2484-6	Sequence 6, Appli
37	117.5	14.2	497	12 US-10-052-589-2	Sequence 2, Appli
38	113.5	13.7	400	10 US-09-966-871-85	Sequence 85, Appl
39	113.5	13.7	400	10 US-10-039-645-85	Sequence 85, Appl
40	113.5	13.7	415	10 US-09-823-114-20	Sequence 20, Appl
41	112.5	13.6	359	10 US-09-862-7674-7	Sequence 7, Appli
42	112.5	13.6	400	10 US-09-862-871-78	Sequence 78, Appl
43	112.5	13.6	400	12 US-10-039-645-78	Sequence 78, Appl
44	112	13.6	400	9 US-09-971-228-12	Sequence 12, Appl
45	112	13.6	400	10 US-09-812-272-2	Sequence 2, Appli

RESULT 1  
US-09-895-686-4  
; Sequence 4, Application US/09895686  
; Patent No. US2002010655A1  
; GENERAL INFORMATION:  
; APPLICANT: Bandman, Olga  
; APPLICANT: Lal, Preeti  
; APPLICANT: Tang, Y. Tom  
; APPLICANT: Baughn, Mariah R.  
; TITLE OF INVENTION: HUMAN GPCR PROTEINS  
; FILE REFERENCE: PC-0044 CIP  
; CURRENT APPLICATION NUMBER: US/09/895.686  
; CURRENT FILING DATE: 2001-06-28  
; NUMBER OF SEQ ID NOS: 74  
; SOFTWARE: PERL Program  
; SEQ ID NO 4  
; LENGTH: 396  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: misc\_feature  
; OTHER INFORMATION: Incyte ID No. US2002010655A1 2488822CD1  
US-09-895-686-4

Query Match 77.2% Score 638; DB 10; Length 396;  
Best Local Similarity 94.8%; Pred. No. 5.1e-62;  
Matches 127; Conservative 1; Mismatches 6; Indels 0; Gaps 0;

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DB 215 AQLYSVAIFLGINIAAFILIFVSGMFYSVHQSATITAEIRNOVKKEMILAKFFPIVF 274

QY 61 TPALCWIPFVAKPISLOVEIRPGITISWVVTGSAINSANPLITLTTPPFKEMTHRF 120  
DB 275 TPALCWIPFVAKPISLOVEIRPGITISWVVTGSAINSANPLITLTTPPFKEMTHRF 334

QY 121 WNYRQKSMDSKG 134  
DB 335 WNYRQKSMDSKG 348

RESULT 2

US-09-928-175-24  
; Sequence 24, Application US/09928175  
; Patent No. US20020123618A1  
; GENERAL INFORMATION:  
; APPLICANT: Paszty, Christopher J.  
; APPLICANT: Gong, Jianhua  
; APPLICANT: Daugherty, Betsy  
; APPLICANT: Rogers, No. US20020123618A1ma  
; TITLE OF INVENTION: Leucine-Rich G Protein Coupled Receptor-8 Molecules and  
; FILE REFERENCE: 00-1229  
; CURRENT APPLICATION NUMBER: US/09/928,175  
; PRIOR FILING DATE: 2001-08-10  
; PRIOR APPLICATION NUMBER: 60/224,455  
; NUMBER OF SEQ ID NOS: 42  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 24  
; LENGTH: 757  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
09-928-175-24

Query Match 77.2%; Score 638; DB 10; Length 757;  
Best Local Similarity 94.8%; Pred. No. 1,1e-61;  
Matches 127; Conservative 1; Mismatches 6; Indels 0; Gaps 0;

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DB 576 AQIYSVAIFLGINLAFFIIVSYGSMFYSVHGSAITATETIRNVKKEMLAKRFFPIV 635  
QY 61 TDALCWPIPIFAKPLSLQVIEPCTITSMVYIGSAINSLNPLTLTTRPFKEMHRF 120  
DB 636 TDALCWPIPIFAKPLSLQVIEPCTITSMVYIGSAINSLNPLTLTTRPFKEMHRF 695  
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DB 696 WHNYRQRKSMDSKG 709

RESULT 3  
US-09-989-442-105  
; Sequence 105, Application US/09989442  
; Publication No. US20030013649A1  
; GENERAL INFORMATION:  
; APPLICANT: Rosen et al.  
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies  
; FILE REFERENCE: P208  
; CURRENT APPLICATION NUMBER: US/09/989,442  
; PRIOR FILING DATE: 2001-11-21  
; PRIOR APPLICATION NUMBER: 60/179,065  
; PRIOR FILING DATE: 2000-01-31  
; PRIOR APPLICATION NUMBER: 60/180,628  
; PRIOR FILING DATE: 2000-02-04  
; PRIOR APPLICATION NUMBER: 60/214,886  
; PRIOR FILING DATE: 2000-06-28  
; PRIOR APPLICATION NUMBER: 60/217,487  
; PRIOR FILING DATE: 2000-07-11  
; PRIOR APPLICATION NUMBER: 60/225,758  
; PRIOR FILING DATE: 2000-08-14  
; PRIOR APPLICATION NUMBER: 60/220,963  
; PRIOR FILING DATE: 2000-07-26  
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; PRIOR APPLICATION NUMBER: 60/225,757  
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; PRIOR APPLICATION NUMBER: 60/226,868  
; PRIOR FILING DATE: 2000-08-22  
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; PRIOR FILING DATE: 2000-07-07  
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; PRIOR APPLICATION NUMBER: 60/235,834  
; PRIOR FILING DATE: 2000-09-27  
; PRIOR APPLICATION NUMBER: 60/234,274  
; PRIOR FILING DATE: 2000-09-21  
; PRIOR APPLICATION NUMBER: 60/234,223  
; PRIOR FILING DATE: 2000-09-21  
; PRIOR APPLICATION NUMBER: 60/228,924  
; PRIOR FILING DATE: 2000-08-30  
; PRIOR APPLICATION NUMBER: 60/224,518  
; PRIOR FILING DATE: 2000-08-14  
; PRIOR APPLICATION NUMBER: 60/236,369  
; PRIOR FILING DATE: 2000-09-29  
; PRIOR APPLICATION NUMBER: 60/224,519  
; PRIOR FILING DATE: 2000-08-14  
; PRIOR APPLICATION NUMBER: 60/220,964  
; PRIOR FILING DATE: 2000-07-26  
; PRIOR APPLICATION NUMBER: 60/241,809  
; PRIOR FILING DATE: 2000-10-20  
; PRIOR APPLICATION NUMBER: 60/249,299  
; PRIOR FILING DATE: 2000-11-17  
; PRIOR APPLICATION NUMBER: 60/236,327  
; PRIOR FILING DATE: 2000-09-29  
; PRIOR APPLICATION NUMBER: 60/241,785  
; PRIOR FILING DATE: 2000-10-20  
; PRIOR APPLICATION NUMBER: 60/244,617  
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; PRIOR APPLICATION NUMBER: 60/225,268  
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; PRIOR FILING DATE: 2000-09-25  
; PRIOR APPLICATION NUMBER: 60/229,343  
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; PRIOR FILING DATE: 2000-09-01  
; PRIOR APPLICATION NUMBER: 60/229,287  
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; PRIOR APPLICATION NUMBER: 60/229,513  
; PRIOR FILING DATE: 2000-09-05  
; PRIOR APPLICATION NUMBER: 60/231,413  
; PRIOR FILING DATE: 2000-09-08  
; PRIOR APPLICATION NUMBER: 60/229,509  
; PRIOR FILING DATE: 2000-09-05  
; PRIOR APPLICATION NUMBER: 60/236,367  
; PRIOR FILING DATE: 2000-09-29  
; PRIOR APPLICATION NUMBER: 60/237,039  
; PRIOR FILING DATE: 2000-10-02  
; PRIOR APPLICATION NUMBER: 60/237,038  
; PRIOR FILING DATE: 2000-10-02  
; PRIOR APPLICATION NUMBER: 60/236,370  
; PRIOR FILING DATE: 2000-09-29  
; PRIOR APPLICATION NUMBER: 60/236,802  
; PRIOR FILING DATE: 2000-10-02  
; PRIOR APPLICATION NUMBER: 60/237,037  
; PRIOR FILING DATE: 2000-10-02  
; PRIOR APPLICATION NUMBER: 60/237,040  
; PRIOR FILING DATE: 2000-10-02

PRIOR APPLICATION NUMBER: 60/240,960  
 PRIOR FILING DATE: 2000-10-20  
 PRIOR APPLICATION NUMBER: 60/239,935  
 PRIOR FILING DATE: 2000-10-13  
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 PRIOR FILING DATE: 2000-10-13  
 PRIOR APPLICATION NUMBER: 60/241,787  
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 PRIOR APPLICATION NUMBER: 60/246,474  
 PRIOR FILING DATE: 2000-11-08  
 PRIOR APPLICATION NUMBER: 60/246,532  
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 PRIOR FILING DATE: 2000-08-22  
 PRIOR APPLICATION NUMBER: 60/225,759  
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 PRIOR FILING DATE: 2000-08-14  
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 PRIOR APPLICATION NUMBER: 60/225,214  
 PRIOR FILING DATE: 2000-08-14  
 PRIOR APPLICATION NUMBER: 60/235,836  
 PRIOR FILING DATE: 2000-09-27  
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 PRIOR FILING DATE: 2000-09-06  
 PRIOR APPLICATION NUMBER: 60/215,135  
 PRIOR FILING DATE: 2000-06-30  
 PRIOR APPLICATION NUMBER: 60/225,266  
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 PRIOR FILING DATE: 2000-11-17  
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 PRIOR APPLICATION NUMBER: 60/249,211  
 PRIOR FILING DATE: 2000-11-17  
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 PRIOR FILING DATE: 2000-11-17  
 PRIOR APPLICATION NUMBER: 60/249,264  
 PRIOR FILING DATE: 2000-11-17  
 PRIOR APPLICATION NUMBER: 60/249,214  
 PRIOR FILING DATE: 2000-11-17  
 PRIOR APPLICATION NUMBER: 60/249,297  
 PRIOR FILING DATE: 2000-09-08  
 PRIOR APPLICATION NUMBER: 60/231,242  
 PRIOR FILING DATE: 2000-09-14  
 PRIOR APPLICATION NUMBER: 60/232,400  
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 PRIOR APPLICATION NUMBER: 60/232,081  
 PRIOR FILING DATE: 2000-09-08  
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 PRIOR FILING DATE: 2000-09-08  
 PRIOR APPLICATION NUMBER: 60/231,414  
 PRIOR FILING DATE: 2000-09-08  
 PRIOR APPLICATION NUMBER: 60/231,244  
 PRIOR FILING DATE: 2000-09-08  
 PRIOR APPLICATION NUMBER: 60/233,064

PRIOR FILING DATE: 2000-09-14  
 PRIOR APPLICATION NUMBER: 60/233,063  
 PRIOR FILING DATE: 2000-09-14  
 PRIOR APPLICATION NUMBER: 60/232,397  
 PRIOR FILING DATE: 2000-09-14  
 PRIOR APPLICATION NUMBER: 60/232,399  
 PRIOR FILING DATE: 2000-09-14  
 PRIOR APPLICATION NUMBER: 60/232,401  
 PRIOR FILING DATE: 2000-09-14  
 PRIOR APPLICATION NUMBER: 60/241,808  
 PRIOR FILING DATE: 2000-10-20  
 PRIOR APPLICATION NUMBER: 60/241,826  
 PRIOR FILING DATE: 2000-10-20  
 PRIOR APPLICATION NUMBER: 60/241,786  
 PRIOR FILING DATE: 2000-10-20  
 PRIOR APPLICATION NUMBER: 60/241,221  
 PRIOR FILING DATE: 2000-10-20  
 PRIOR APPLICATION NUMBER: 60/246,475  
 PRIOR FILING DATE: 2000-11-08  
 PRIOR APPLICATION NUMBER: 60/231,243  
 PRIOR FILING DATE: 2000-09-08  
 PRIOR APPLICATION NUMBER: 60/233,065  
 PRIOR FILING DATE: 2000-09-14

Query Match 76.5%; Score 632; DB 9; Length 176;  
 Best Local Similarity 94.0%; Pred. No. 8,4e-62;  
 Matches 126; Conservative 1; Mismatches 7; Indels 0; Gaps 0;

QY 1 AOIYVAIFLGINLAFFIIIVSYGSMFYVHOSAITATEIRNOVKKEMILAKRFFIIVF 60  
 DB 1 AOIYVAIFLGINLAFFIIIVSYGSMFYVHOSAITATEIRNOVKKEMILAKRFFIIVF 60  
 QY 61 TDALCWPFIYVVKFSLQVETPGITTSWVYIGYAINSAINPLIYTLTPFKEMIRF 120  
 DB 61 TDALCWPFIYVVKFSLQVETPGITTSWVYIGYAINSAINPLIYTLTPFKEMIRF 120  
 QY 121 WNYRQRKSMDSKG 134  
 DB 121 WNYRQRKSMDSKG 134

RESULT 4  
 US-09-764-853-557  
 ; Sequence 557, Application US/09764853  
 ; Patent No. US20020090672A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Rosen et al.  
 ; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies  
 ; FILE REFERENCE: P1206  
 ; CURRENT APPLICATION NUMBER: US/09/764,853  
 ; Prior application data removed - consult PALM or file wrapper  
 ; NUMBER OF SEQ ID NOS: 939  
 ; SOFTWARE: PatentIn Ver. 2.0  
 ; SEQ ID NO 557  
 ; LENGTH: 176  
 ; TYPE: PRT  
 ; ORGANISM: Homo sapiens  
 ; FEATURE:  
 ; NAME/KEY: SITE  
 ; LOCATION: (133)  
 ; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids  
 ; US-09-764-853-557

Query Match 76.5%; Score 632; DB 10; Length 176;  
 Best Local Similarity 94.0%; Pred. No. 8,4e-62;  
 Matches 126; Conservative 1; Mismatches 7; Indels 0; Gaps 0;

QY 1 AOIYVAIFLGINLAFFIIIVSYGSMFYVHOSAITATEIRNOVKKEMILAKRFFIIVF 60  
 DB 1 AOIYVAIFLGINLAFFIIIVSYGSMFYVHOSAITATEIRNOVKKEMILAKRFFIIVF 60  
 QY 61 TDALCWPFIYVVKFSLQVETPGITTSWVYIGYAINSAINPLIYTLTPFKEMIRF 120

Db 61 TDALCWPPIVAVFLSLQVEIPGTTISWVIFILPINSALNPILYLTTRPFKEMTHRF 120  
QY 121 WMYNRORXSMDSKG 134  
Db 121 WMYNRORXSMDSKG 134

RESULT 5  
US-09-764-877-2009  
; Sequence 2009, Application US/09764877  
; Patent No. US20020147140A1  
; GENERAL INFORMATION:  
; APPLICANT: Rosen et al.  
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies  
; FILE REFERENCE: PC005  
; CURRENT APPLICATION NUMBER: US/09/764,877  
; CURRENT FILING DATE: 2001-01-17  
; Prior application data removed - refer to PALM or file wrapper  
; NUMBER OF SEQ ID NOS: 4031  
; SOFTWARE: PatentIn Ver. 2.0  
EQ ID NO 2009  
LENGTH: 176  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
; FEATURES:  
; NAME/KEY: SITE  
; LOCATION: (133)  
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids  
US-09-764-877-2009

Query Match 76.5%; Score 632; DB 10; Length 176;  
Best Local Similarity 94.0%; Pred. No. 8.4e-62;  
Matches 126; Conservative 1; Mismatches 7; Indels 0; Gaps 0;  
QY 1 AQISVAIFLGINLAFAITIVFSYSGMFSYVHQSATATATEIRNOVKKEMILAKRFFPIV 60  
Db 1 AQISVAIFLGINLAFAITIVFSYSGMFSYVHQSATATATEIRNOVKKEMILAKRFFPIV 60  
QY 61 TDALCWPPIVAVFLSLQVEIPGTTISWVIFILPINSALNPILYLTTRPFKEMTHRF 120  
Db 61 TDALCWPPIVAVFLSLQVEIPGTTISWVIFILPINSALNPILYLTTRPFKEMTHRF 120  
QY 121 WMYNRORXSMDSKG 134  
Db 121 WMYNRORXSMDSKG 134

ULT 6  
9-928-175-21  
; Sequence 21, Application US/09928175  
; Patent No. US20020123618A1  
; GENERAL INFORMATION:  
; APPLICANT: Paszty, Christopher J.  
; APPLICANT: Gong, Jianhua  
; APPLICANT: Daugherty, Betsy  
; APPLICANT: Rogers, No. US20020123618A1ma  
; TITLE OF INVENTION: Leucine-Rich G Protein Coupled Receptor-8 Molecules and  
; FILE REFERENCE: 00-1229  
; CURRENT APPLICATION NUMBER: US/09/928,175  
; CURRENT FILING DATE: 2001-08-10  
; PRIOR APPLICATION NUMBER: 60/224,455  
; PRIOR FILING DATE: 2000-08-10  
; NUMBER OF SEQ ID NOS: 42  
; SOFTWARE: PatentIn Ver. 2.0  
SEQ ID NO 21  
LENGTH: 718  
; TYPE: PRT  
; ORGANISM: Mus musculus  
US-09-928-175-21

Query Match 49.5%; Score 409; DB 10; Length 718;

Best Local Similarity 58.9%; Pred. No. 1e-36;  
Matches 73; Conservative 27; Mismatches 24; Indels 0; Gaps 0;  
QY 4 YSAVAFILGINLAFAITIVFSYSGMFSYVHQSATATATEIRNOVKKEMILAKRFFPIVPTDA 63  
Db 553 YSLGIFLGYNLAFLVIVISYVTFMCSIHKTALQTAERSHIGKEVAVANRFFPIVPSDA 612  
QY 64 LCMWPIFVAKPLSLQVEIPGTTISWVIFILPINSALNPILYLTTRPFKEMTHRFMHN 123  
Db 613 LCMWPIFVAKPLSLQVEIPGTTISWVIFILPINSALNPILYLTTRPFKEMTHRF 672  
QY 124 YROR 127  
Db 673 HRRK 676

RESULT 7  
US-09-928-175-20  
; Sequence 20, Application US/09928175  
; Patent No. US20020123618A1  
; GENERAL INFORMATION:  
; APPLICANT: Paszty, Christopher J.  
; APPLICANT: Gong, Jianhua  
; APPLICANT: Daugherty, Betsy  
; APPLICANT: Rogers, No. US20020123618A1ma  
; TITLE OF INVENTION: Leucine-Rich G Protein Coupled Receptor-8 Molecules and  
; FILE REFERENCE: 00-1229  
; CURRENT APPLICATION NUMBER: US/09/928,175  
; CURRENT FILING DATE: 2001-08-10  
; PRIOR APPLICATION NUMBER: 60/224,455  
; PRIOR FILING DATE: 2000-08-10  
; NUMBER OF SEQ ID NOS: 42  
; SOFTWARE: PatentIn Ver. 2.0  
SEQ ID NO 20  
LENGTH: 737  
; TYPE: PRT  
; ORGANISM: Mus musculus  
US-09-928-175-20

Query Match 49.5%; Score 409; DB 10; Length 737;  
Best Local Similarity 58.9%; Pred. No. 1.1e-36;  
Matches 73; Conservative 27; Mismatches 24; Indels 0; Gaps 0;  
QY 4 YSAVAFILGINLAFAITIVFSYSGMFSYVHQSATATATEIRNOVKKEMILAKRFFPIVPTDA 63  
Db 572 YSLGIFLGYNLAFLVIVISYVTFMCSIHKTALQTAERSHIGKEVAVANRFFPIVPSDA 631  
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Db 632 LCMWPIFVAKPLSLQVEIPGTTISWVIFILPINSALNPILYLTTRPFKEMTHRF 691  
QY 124 YROR 127  
Db 692 HRRK 695

RESULT 8  
US-09-928-175-13  
; Sequence 13, Application US/09928175  
; Patent No. US20020123618A1  
; GENERAL INFORMATION:  
; APPLICANT: Paszty, Christopher J.  
; APPLICANT: Gong, Jianhua  
; APPLICANT: Daugherty, Betsy  
; APPLICANT: Rogers, No. US20020123618A1ma  
; TITLE OF INVENTION: Leucine-Rich G Protein Coupled Receptor-8 Molecules and  
; FILE REFERENCE: 00-1229  
; CURRENT APPLICATION NUMBER: US/09/928,175  
; CURRENT FILING DATE: 2001-08-10  
; PRIOR APPLICATION NUMBER: 60/224,455  
; PRIOR FILING DATE: 2000-08-10

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; NUMBER OF SEQ ID NOS: 42
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 13
; LENGTH: 646
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-928-175-13
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Query Match          47.5%; Score 392.5; DB 10; Length 646;
Best Local Similarity 59.1%; Pred. No. 5.7e-35;
Matches 75; Conservative 25; Mismatches 26; Indels 1; Gaps 1;
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Db 541 ICMWIPFVVKILSLFRVEIPDTMTSMIVIFFLPVNSALNPILYTLTTFPFKDKQLLHK 600
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QY 124 YRORKSM 130
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Db 601 H-QRKSI 606
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## RESULT 9

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US-09-928-175-12
; Sequence 12, Application US/09928175
; Patent No. US20020123618A1
; GENERAL INFORMATION:
; APPLICANT: Paszty, Christopher J.
; APPLICANT: Gong, Jianhua
; APPLICANT: Daugherty, Betsy
; APPLICANT: Rogers, No. US20020123618A1ma
; TITLE OF INVENTION: Leucine-Rich G Protein Coupled Receptor-8 Molecules and
; FILE REFERENCE: 00-1229
; CURRENT APPLICATION NUMBER: US/09/928,175
; PRIOR FILING DATE: 2001-08-10
; PRIOR APPLICATION NUMBER: 60/224,455
; NUMBER OF SEQ ID NOS: 42
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 12
; LENGTH: 682
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-928-175-12
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Query Match          47.5%; Score 392.5; DB 10; Length 682;
Best Local Similarity 59.1%; Pred. No. 6.1e-35;
Matches 75; Conservative 25; Mismatches 26; Indels 1; Gaps 1;
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Db 517 YSLGIFLGWNLAFILIVFSYITMFCSTOKTALQTEVRNCGREVAVANRFFFIPTSDA 576
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QY 64 LCMWIPFVAKPLSLQVEIPGTTISWVVIIGYSAINSLNPILYTLTTRPFKEMIHREWMN 123
   ||:||||:||||:||||:||||:||||:||||:||||:||||:||||:||||:
Db 577 ICMWIPFVVKILSLFRVEIPDTMTSMIVIFFLPVNSALNPILYTLTTFPFKDKQLLHK 636
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QY 124 YRORKSM 130
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Db 637 H-QRKSI 642
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RESULT 10
US-09-928-175-8
; Sequence 8, Application US/09928175
; Patent No. US20020123618A1
; GENERAL INFORMATION:
; APPLICANT: Paszty, Christopher J.
; APPLICANT: Gong, Jianhua
```

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; APPLICANT: Daugherty, Betsy
; APPLICANT: Rogers, No. US20020123618A1ma
; TITLE OF INVENTION: Leucine-Rich G Protein Coupled Receptor-8 Molecules and
; FILE REFERENCE: 00-1229
; CURRENT APPLICATION NUMBER: US/09/928,175
; PRIOR FILING DATE: 2001-08-10
; PRIOR APPLICATION NUMBER: 60/224,455
; NUMBER OF SEQ ID NOS: 42
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 8
; LENGTH: 694
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-928-175-8
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Query Match          47.5%; Score 392.5; DB 10; Length 694;
Best Local Similarity 59.1%; Pred. No. 6.2e-35;
Matches 75; Conservative 25; Mismatches 26; Indels 1; Gaps 1;
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Db 529 YSLGIFLGWNLAFILIVFSYITMFCSTOKTALQTEVRNCGREVAVANRFFFIPTSDA 588
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QY 64 LCMWIPFVAKPLSLQVEIPGTTISWVVIIGYSAINSLNPILYTLTTRPFKEMIHREWMN 123
   ||:||||:||||:||||:||||:||||:||||:||||:||||:||||:||||:
Db 589 ICMWIPFVVKILSLFRVEIPDTMTSMIVIFFLPVNSALNPILYTLTTFPFKDKQLLHK 648
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QY 124 YRORKSM 130
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Db 649 H-QRKSI 654
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## RESULT 11

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US-09-928-175-3
; Sequence 3, Application US/09928175
; Patent No. US20020123618A1
; GENERAL INFORMATION:
; APPLICANT: Paszty, Christopher J.
; APPLICANT: Gong, Jianhua
; APPLICANT: Daugherty, Betsy
; APPLICANT: Rogers, No. US20020123618A1ma
; TITLE OF INVENTION: Leucine-Rich G Protein Coupled Receptor-8 Molecules and
; FILE REFERENCE: 00-1229
; CURRENT APPLICATION NUMBER: US/09/928,175
; PRIOR FILING DATE: 2001-08-10
; PRIOR APPLICATION NUMBER: 60/224,455
; NUMBER OF SEQ ID NOS: 42
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 3
; LENGTH: 718
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-928-175-3
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Query Match          47.5%; Score 392.5; DB 10; Length 718;
Best Local Similarity 59.1%; Pred. No. 6.5e-35;
Matches 75; Conservative 25; Mismatches 26; Indels 1; Gaps 1;
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Db 553 YSLGIFLGWNLAFILIVFSYITMFCSTOKTALQTEVRNCGREVAVANRFFFIPTSDA 612
   ||:||||:||||:||||:||||:||||:||||:||||:||||:||||:||||:
QY 64 LCMWIPFVAKPLSLQVEIPGTTISWVVIIGYSAINSLNPILYTLTTRPFKEMIHREWMN 123
   ||:||||:||||:||||:||||:||||:||||:||||:||||:||||:||||:
Db 613 ICMWIPFVVKILSLFRVEIPDTMTSMIVIFFLPVNSALNPILYTLTTFPFKDKQLLHK 672
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QY 124 YRORKSM 130
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Db 673 H-QRKSI 678
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RESULT 12  
US-09-928-175-7  
Sequence 7, Application US/09928175  
Patent No. US20020123618A1  
GENERAL INFORMATION:  
APPLICANT: Paszty, Christopher J.  
APPLICANT: Gong, Jianhua  
APPLICANT: Daugherty, Betsy  
APPLICANT: Rogers, No. US20020123618A1ma  
TITLE OF INVENTION: Leucine-Rich G Protein Coupled Receptor-8 Molecules and  
FILE REFERENCE: 00-1229  
CURRENT APPLICATION NUMBER: US/09/928,175  
PRIOR FILING DATE: 2001-08-10  
PRIOR APPLICATION NUMBER: 60/224,455  
PRIOR FILING DATE: 2000-08-10  
NUMBER OF SEQ ID NOS: 42  
SOFTWARE: Patentin Ver. 2.0  
EQ ID NO 7  
LENGTH: 730  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-09-928-175-7

Query Match 47.5%; Score 392.5; DB 10; Length 730;  
Best Local Similarity 59.1%; Pred. No. 6,9e-35;  
Matches 75; Conservative 25; Mismatches 26; Indels 1; Gaps 1;

QY 4 YSAVAFGLINLAFLIIIVSYGSMFYSVHOSAITATEIRNOVKEMILAKRFFIIVFTDA 63  
DB 565 YSLGIFLGVNLAFLLIVFSYITMFCISIQKTALQTEVRNCGREAVANRFFIIVFSDA 624

QY 64 LCMPIFVAKPLSLQVEIPGTTISWVIVIGYSAINSALNPILYTLTRPPKEMTHRWEN 123  
DB 625 ICMIPVAVVILSLFRVEIDPTMTSWIVIFLPVNSALNPILYTLTRPPKDKLKLHK 684

QY 124 YRQRKSM 130  
DB 685 H-QRKSI 690

RESULT 13  
US-09-928-175-2  
Sequence 2, Application US/09928175  
Patent No. US20020123618A1  
GENERAL INFORMATION:  
APPLICANT: Paszty, Christopher J.  
APPLICANT: Gong, Jianhua  
APPLICANT: Daugherty, Betsy  
APPLICANT: Rogers, No. US20020123618A1ma  
TITLE OF INVENTION: Leucine-Rich G Protein Coupled Receptor-8 Molecules and  
FILE REFERENCE: 00-1229  
CURRENT APPLICATION NUMBER: US/09/928,175  
PRIOR FILING DATE: 2001-08-10  
PRIOR APPLICATION NUMBER: 60/224,455  
PRIOR FILING DATE: 2000-08-10  
NUMBER OF SEQ ID NOS: 42  
SOFTWARE: Patentin Ver. 2.0  
EQ ID NO 2  
LENGTH: 754  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-09-928-175-2

Query Match 47.5%; Score 392.5; DB 10; Length 754;  
Best Local Similarity 59.1%; Pred. No. 6,9e-35;  
Matches 75; Conservative 25; Mismatches 26; Indels 1; Gaps 1;

QY 4 YSAVAFGLINLAFLIIIVSYGSMFYSVHOSAITATEIRNOVKEMILAKRFFIIVFTDA 63  
DB 565 YSLGIFLGVNLAFLLIVFSYITMFCISIQKTALQTEVRNCGREAVANRFFIIVFSDA 624

DB 589 YSLGIFLGVNLAFLLIVFSYITMFCISIQKTALQTEVRNCGREAVANRFFIIVFSDA 648  
QY 64 LCMPIFVAKPLSLQVEIPGTTISWVIVIGYSAINSALNPILYTLTRPPKEMTHRWEN 123  
DB 649 ICMIPVAVVILSLFRVEIDPTMTSWIVIFLPVNSALNPILYTLTRPPKDKLKLHK 708

QY 124 YRQRKSM 130  
DB 709 H-QRKSI 714

RESULT 14  
US-09-877-804-7  
Sequence 7, Application US/09877804  
Patent No. US20020061557A1  
GENERAL INFORMATION:  
APPLICANT: Nikolic, Karoly  
APPLICANT: McFarland, Keith C.  
APPLICANT: Segalo, Deborah L.  
APPLICANT: Seeburg, Peter H.  
TITLE OF INVENTION: Glycoprotein Hormone Receptor Molecules  
FILE REFERENCE: P0576P1C2  
CURRENT APPLICATION NUMBER: US/09/877,804  
PRIOR FILING DATE: 2001-09-04  
PRIOR APPLICATION NUMBER: US 08/207,814  
PRIOR FILING DATE: 1994-03-07  
PRIOR APPLICATION NUMBER: US 07/781,153  
PRIOR FILING DATE: 1991-10-31  
PRIOR APPLICATION NUMBER: US 07/347,683  
NUMBER OF SEQ ID NOS: 22  
EQ ID NO 7  
LENGTH: 675  
TYPE: PRT  
ORGANISM: Artificial sequence  
FEATURE:  
OTHER INFORMATION: deduced sequence  
US-09-877-804-7

Query Match 16.9%; Score 139.5; DB 10; Length 675;  
Best Local Similarity 27.3%; Pred. No. 2,4e-07;  
Matches 47; Conservative 30; Mismatches 60; Indels 35; Gaps 6;

QY 1 AQIYSAIFGLINLAFLIIIVSYGSMFYSVHOSAITATEIRNOVKEMILAKRFFIIVF 60  
DB 509 SOLVYML-LVLANVLAFAVIGCGTHTYLYTRNPTIVS-----SSDTAKRMATLIF 561

QY 61 TDAICWIFI-FVAKPLSLQVEIPGTTISWVIVIGYSAINSALNPILYTLTRPPKE---- 115  
DB 562 TDFLCMAPISEFAISASUKVPLIVSKAKILLVLFYINSCAMPFLVAIFTKNFRDFFI 621

QY 116 MIHFF-----WENYRQRKSMDSKGRKH-----MLHSS 144  
DB 622 LLSKFGCYEMQAQIYRTETSSATNHFARKSHCSADPRTNYSVYVPLNHS 673

RESULT 15  
US-09-877-804-6  
Sequence 6, Application US/09877804  
Patent No. US20020061557A1  
GENERAL INFORMATION:  
APPLICANT: Nikolic, Karoly  
APPLICANT: McFarland, Keith C.  
APPLICANT: Segalo, Deborah L.  
APPLICANT: Seeburg, Peter H.  
TITLE OF INVENTION: Glycoprotein Hormone Receptor Molecules  
FILE REFERENCE: P0576P1C2  
CURRENT APPLICATION NUMBER: US/09/877,804  
PRIOR FILING DATE: 2001-09-04  
PRIOR APPLICATION NUMBER: US 08/207,814  
PRIOR FILING DATE: 1994-03-07  
PRIOR APPLICATION NUMBER: US 07/781,153  
PRIOR FILING DATE: 1991-10-31



